



EPHEMERIDVM

Loca ☉ ex Tychone pro verum ... 8 ... 43 ...

czyma na giez gimnaci wrausse
tany y ostoki na debnych ...
czanie ... ...
pro ... ...

Vitiora enim largius
emetimur.

...
... na wielki ...

Epochas a meridie Calendarum Jan... incipere est dicam anni extra annum locare. Prudenter antiqui inchoabant a meridie Calendarum ... ut prima dies numerando terminaretur in ipso meridie. Vid... et Copernicus facit a media nocte Romano.

Ad investigandos numeros a quopiam secreto conceptos infra 990.

assumuntur primi inter se per quos dividitur conceptus et residua tantum dicantur.	9	550	Numeri in residua multiplicandi.	Divisor aggregati 990
	10	891		
	11	540		

Quod si adderetur quartus addebatur verbi gratia 31 qui primus est cum his 9, 10, 11 inter se poterunt omnes numeri concepti investigari infra 30690, sed alii numeri tunc in residua erunt multiplicandi.

Omnis sphaerae superficies quadrupla est maximi circuli eorum qui sunt in ipsa sphaera. Archimedes de sphaera et cylindro.

Omnis portionis sphaerae superficiei aequalis est circulus cuius radius aequalis est rectae lineae a vertice portionis in circumferentiam basis ductae. Idem ibidem.

Keplerus una manu aedificat Astronomiam altera diruit. Quid enim certum esse potest in omni motuum doctrina aequalitate primi motus sublata? Vide tabulas Rudolphinas.

Itaque potest illud usurpari Terentianum in Phormione. Fecistis probe incertior sum multo quam dudum.

Idem Keplerus sublata Astrologia et in Rudolphinis auxit affectus ... quibus ... ad chronologicas ... [conjectural]

		...		
Divisores primi inter se	9	27280	Numeri in residua multiplicandi	Divisor aggregati 30690
	10	27621		
	11	22320		
	31	14850		

pestIs beLLa faMes absInt paX VIVIDa VIVat

Laurentius Maiolus De gradibus Medicinarum in 4to 1497.
Dopisy te są rzeczy o Broszyusza.

Jani Dubravii Episcopi Olomucensis De piscinis lib. V.
Ad Illustr. V. Antonium Fuggarum Baronem Kirchemii et
Item Hippocratis Coi aphorismorum libr. duo versibus redditi Norimbergae Typis Ludovici Lochneri
Sumptibus Joannis Liebi Anno 1623
edidit G Remus I.C.

Topir prze... tak
Sitwara tak i tak
y wszytek y wszystko

Maranta De ordine iudiciorum.

Intereunt pisces si in exigua nimis aqua diutius stabulentur non aliter quam caetera animantia si in exiguo aere claudantur exemplo animalium naturae indagator Aristoteles testis est. Quum si accidat ut vel aliunde piscibus immineat perniciens, aut a Verbasco in piscinas proiecto, aut a Cyclamini radice quam idem ἰχθυοτέραν cognominant, aut a lacte Tithymali herbae quam aliqui caprinam lactucam Cornelius marinam appellat: hinc item nihil magis expediat quam aquas mutare renovareque. Hoc eodem lacte Tithymali si corpus alicuius inscriptum et postquam inaruit inscriptio cinere conspersum fuerit: narrant apparere literas ut illas vel adulterae queant legere. Superbit exitium piscibus aristolochia molitur siquidem refert Plinius etc. Est et cannabis succus amarus piscibus mortifer, propter quod nos qui in regionibus nostris tam cannabi quam piscibus abundamus lege atque multa vetamus ne cui liceat cannabim iuxta piscinas macerare. Contra Apium omnibus piscibus morbo laborantibus maxime est salutare, hoc ipso Plinio libro XX prodente.

Teuffels-milch.

Ex Jano Dubravio Epo Olomucensi

Philippus rex Hispaniae natus est 1605 die 8 Aprilis hora 9 post meridiem Vallisoleti altitudo poli 42 graduum ascendente gradu 15

NB Dibuadius in praefatione super librum quintum Elementorum Euclidis — Communis hic liber est plurimis artibus et scientiis Magnae enim in Musica, Astronomia, Geographia, Perspectiva et Arithmetica vis est. Tantum revolutiones mundi, mutationes imperiorum miracula naturae, cum hac proportionum doctrina commercium habent et philosophus hac arte instructus plurima solerti ingenio quasi Numina tactus ex abysso naturae arcana eruere possit; nec errori involvetur nisi cum auctor ille et conditor rerum Deus potenti vi sua Naturae ordinem immutet.

X in quibus regula proportionum fallat

℞ Ung. Popul. ℥iiij
Ol. rosar. ℥j
Succ. plantag. ℥ß
Misce fiat cum lento igne Ungu.

℞ salis vini ℥j
Tragacant.
alum. ana ℥j
fiat pulvis ponatur in patella cog. in aceto bono
gptu ghbuhox..
ff p.

Ephemerides monstrant nobis opticam ~~planetarum~~ apparentiam in Zodiaco: intervalla siderum physica non monstrant. exempli gratia Lunam Saturno iungi vel ad Pleiades accedere. at quanto tamen spacio sese invicem distant!

CXXXIV

Epochæ ad annum Christi Domini 1645 completum per ultimam Decembris meridie

9	10	11	26	Medii motus ☉
3	6	30	20	Apogæi Solis
0	28	15	14	Fixarum
2	22	42	18	Medii motus ☽
8	19	37	4	Apogæi
4	11	56	43	☊ regredientis.
1	8	38	17	Medii motus ♄
8	26	54	20	Apogæi
3	21	53	32	☊ Saturni
2	26	9	20	Medii motus ♃
6	7	27	23	Apogæi
3	5	28	36	☊ Jovis
9	5	6	46	Medii motus ♂
4	29	50	5	Apogæi
1	17	14	19	☊ Martis
0	28	6	51	Medii motus ♀
10	2	12	52	Apogæi
2	13	35	59	☊ Veneris
10	24	17	28	Medii motus ☿
8	14	8	22	Apogæi
1	13	29	16	☊ Mercurii

♄	0	38	38	17
♂	4	35	6	46
Superatio	2	3	32	31

Pars Altera
EPHEMERIDUM
NOVARUM ET MOTUUM COELESTIUM
DECENNALIS

Ab Anno Æræ Christianæ 1641. incipientium, & in annum 1650. desinentium.

In Luminarium motibus & Eclipsibus ex Tabulis Danicis CHRISTIANI S. LONGOMONTANI, in reliquis Planetis ex Tabulis Rudolphinis JOANNIS KEPLERI juxta exquisitas Nob. TYCHONIS BRAHEI observationes constructis, debitâ diligentiâ elaborata & supputata

à

LAURENTIO EICHSTADIO, Med. D. & Physico Ordinario in Veteri Sedino Pomeranorum.

CUM PÆDIA ASTRONOMICA CONTINUATA.



STETINI, Typis & Impensis DAVIDIS RHETII,
M. DC. XXXVI.

Emendanda & adjicienda in priori & hac Ephemeridum parte.

ETſi, B. L. non exiguam adhibui diligentiam, ut Tibi utramq; Ephemeridum partem, quàm emendatiſſimam exhiberem, nihilominus tamen quum primã partem denuo diligentius reviderem, inter deſcribendũ amanuenſi manum meã non ſatis adſequente, menda haut diſſimulanda irrepſiſſe, deprehendi. Quia v. factum infectum fieri nequit, ſecundum Comicum, volui, imò debui, in hac altera Ephemeridum parte Te notatione erratorum cùm ſublevare tùm excitare. Nam me non ubivis ſatis oculatum fuiſſe nunc ingenuè fateor. Imò quis tam Lynceus extiterit, qui tali tamq́ue ſpinoſo in labore nuſquam impingat, nuſquam hallucinetur? Reſtat igitur candorem tuum L. B obteſtar & obſecrem, ut ubicunq; dormitavero vigilantia tuâ accurataq; inſpectione ſuppetias feras, & præter errata ad calcem primæ partis Ephemeridum annotata, hæc quoq; addas, antequam eaṙum Lectionem aggrediaris.

In prima Ephemeridum parte adhuc corrigenda & omiſſa addenda.

IN PÆDIA. pag. 9. lin. 16. lege 5. *ſec* p. 11. 16. *l.* 29. *min.* ib. 17 *l.* 7. *grad.* ibid. 21. *l.* ☌☽♂ p. 27. 2. *l.* 26. *min.* ib. 4. *l.* 9. *min.* ib. 16. *l.* 252 *gr.* ib. *l.* 16. *hor.* 48. *min.* ib. 17. *l* 52. *min.* ib. *l. horar.* 8. *min.* ib. 18 *l.* 34. *min.* ib *l. occaſ* ☉ 8 *hor.* 26 *min.* p. 28. 15. *l. declinatione Borea* . ib. 16. *l. auſtrali ſtellæ*. p. 30. 18 *l. declinatio auſtralis* 4 *grad.* p. 87. lucidæ Coronæ A. R. & decl. ad an. 1700. *l. A. R.* 230 *gr.* 31 / *decl.* 27. *gr.* 45 / p. 97. 6. *l.* 0. 23.

IN EPHEM. A. M.DC.XXXVI. in calc Ecl. ☽. *l. argum. Latit.* ☽ 3 *ſex.* 9 *gr.* menſ. *IAN* die 20. ſub ☽ longit. pag 1 *l.* 13. 25. pag. 2. d. 17. *adde* Q♄♂. d. 21. *adde* Bq♃☿ d. 22. *adde* Sſ. ♀☿. *MAII* d 26. *l. Aſc Dom.* JVNII p. 1. in fronte ſub Lat. ☿. *l. S A.* pag 2. die 29. *l.* ☌♃♀ JVLII pag. 2 die 18. *dele* Bq ☉♄, *& adde die* 27. *eundem.* AVGVSTI pag. 2 d. 18. *adde* Q♃♂. d 23 *dele* Q♃♂. SEPTEMB. p. 2. d. 9 *adde* Q♂♀. d. 11. Q☉♂. NOVEMBRIS pag. 2. d. 21. *adde* ☿ *orient.* d. 29. *adde* Sſ. ♀☿. DECEMBR. p 2. d 1. *dele* Sſ ♀☿ *ferè.* d. 4. *adde* Sſ ♄♂.

In EPH. anni M.DC.XXXVII. FEBRVAR. pag 2 d. 2. *adde* Sſ. ♂☿. die 4 *dele* △♃☿. d. 21. *l* ☍♃☿. MARTII, p. 2. d. 11. *adde* ☿ *Orient.* d. 12. *adde* Sſ. ♂☿. APRILIS p 2. d. 25. *dele* ☍♃☿. d. 29. *adde* Sſ ♂♀. Sſ ♂☿. MAII p. 2. d. 4 *adde* △♄♃ *tardus* d. 7. dele *ferè.* JVNII p 2. d. 14. *adde* ♂ *oriental.* AVGVSTI p. 1. ſub ☉ die 1. *l.* 18. 46. 56. OCTOBR. p. 2. d 30 *adde* ✱♂☿. NOVEMBR. p. 2. d. 6. *adde* Sſ ☉♃.

Jn EPHEM. A. M.DC.XXXIIX. JANVAR. p. 2. ſub ☿ *lege Orient.* d 6. *adde* ☿ *Occident.* d. 7. adde ♄ *Orient.* d. 16. adde Q♄♂. d. 21. *adde* Td♃☿. FEBR. p. 2. d. 5 *adde* Td ♂☿. d. 20. *adde* ☿ *Orient.* MARTII p. 1. d. 17 ſub ☉ *l.* 6. 56. 11. APRIL. p. 2.

d. 9. *adde*

d.9 *adde ♃ Occid.* d.13.*add.☌ ♀☿.* d.27.add.*Bq ☉♂.*d.30. *adde ☿ Occid. Maii* 2.d.29.*adde ♂ Occid.* *Junii* p.2.d.27.*adde Bq.☉♂.* d 28.*adde ☿ Orient.* *Juli* p.2.d.16 *adde ♄ Occid. Augusti* p 2.d.12 *adde ☿ Occid.* d.16. *adde Bq ♄☿.Oct* p.2.d.22.*adde ☿ Orient.* d.28.*adde ♃ Orient. Decembr.*p.1.sub Lat.♃ d.12 *l.* p.2.d.18. *adde ☿ Occid.*

In Ephem. A. M.DC.XXXIX. sub latitud. ♃ lege per totum an. S in titu p.1.d.8.*l.Q.♃☿.*d.19. *adde ♄ Orient. Febrvar.* p.2. d.8. *adde ✶♂☿.* d.18 *add. Q♃☿.* d.23 *adde ☌.♀☿. Martii* p.2.d 24.*l.Td ♃☿. April.*p.2.d.12.*l.Q♄☿.Ma* p.2.d.13.*dele Bq♃☿* d.25.dele *ferè.* *Junii* p.2. d.28.*adde ☌.♂☿ platicus.* *Jul.* p.2.d.4.*adde Bq♃☿* d.28.*adde ♄ Occid. Augusti* p.2.d.13.*l Q ♃☿ Septe* p.2.d.10.*adde Td♄☿.* d.27.*adde ✶♀☿ Octobr* p.2.d.2.*adde ☌.♂☿ Novembr* p.2.d.10.*adde ☌♀☿. Decemb* p.2.d.9.*adde ☌♀☿.* d.14 *l.✶♂☿.*

In Ephem. A.M.DC.XL. colum.3.*l Longitudo med.*☉ 9.20.28.43. *Mot. medius* ♀ 4.13 44.53.*Aphelion* ♀ 10.2.5.5. Lat. ♃ usq; ad Jul. mens. est S. n. per totum M. *Janvar* p.2.d.22. sub ☉ *l* 12.23.26.p.2.d.28.*l.☌♃☿. Febr.* d.4. *adde ☌.♃☿. Maii* p 1.d.25. sub ☉ *l.*14.11.1. p.2. d.18. *add.☌ ♀☿.* d.19 *add. Td ♂☿.* *Junii* p.1.d.30. sub ☉.*l.*18.28.0. p 2. d.20. *add. Td ♂☿. Augusti* p. d.18. *adde Bq♄☿.* d 25. *adde ☌♀☿. September.* p.2.d.11. *adde Bq♂♀. Octobr* p. d.4. *adde Bq♂☿. Novemb.* p.2 d.4. *l.Td ♂☿. December.* p.2.d 12. *adde Q♂☿.* 26. *adde Q♂☿.*

Sequuntur sphalmata secundæ partis Ephemeridum.

In Pædia pag.78 lin.5. lege, *est Latitudo quæsita.* pag.94.24. *l occasus a cronychus.* p.95.4. *l.*28 *gr.*50/♏. p.97 6.*l.Olympiadis* 49.p.98.33. *l exercens* p 103.8.&15.*l.cepi.* p.105 3. *l. reliquis.* p.117.19. *l.Horizontis.* p.122.24.*l. gr.*30.*m.* p 126.31.*l.huic.* p.127.26.*l. peculiarem.*p.272.10.*l. pœnæ.*&20.*l aliqu.* p.273.18.*l.calculandam.* p.329.25. *l.lassitudo* p 334.13 *l. auget.* p.336.3 *l ob.. xit* ibid. 10. *l attulit.* Schema Eclipsis ☽naris ad annum Christi 16..1. scriptoris incuriâ depravatum vides: debuit enim utrumq; corpus ☽æ intra circulum exteriorem poni, quum ille posuerit extra.

Quæ verò in Pædia tumultuariè & sine ordine jam videntur posita tertia subsequutura parte in certum ordinem redigam, & quæ adhuc stant, *De Epochis diversis, Thematographia, Genethliacis &c.* supplere stude. Deus ter opt. ter max. cymbam nostram Astronomicam in hac commu. naufraga tempestate ad portum tranquillitatis clementer bona aura subducat: Ita enim propediem tertia Ephemeridum quindecennalium pars subsequetur.



MAGNIFICIS, NOBILISSIMIS, AMPLISSIMIS, SPLENDORE GENERIS, PIETATE, autoritate, prudentia, & rerum usu eminentissimis Viris,

Dnn. Consuli, Consularibus, Syndicis, & reliquis Senatoribus Imperialis liberæ & inclytæ Reipubl. HAMBURGENSIS, Dominis summa mihi observantia colendis.

LAURENTIUS EICHSTADIUS, Med. D.

S. D.



Uo sunt, VIRI MAGNI, hominum literatorum genera, unum eorum, qui ætatem in speculatrice rerum naturalium abditarumque notitia transigunt, & in nuda contemplatione unicè acquiescentes ista mentis exercitatione non minùs utili quàm jucunda, veritatis præsidium ac conservationem quærunt, seseq; & alios oblectant. Alterum illorum est, qui reperta Philosophiæ contemplativæ communi vitæ usui accommodare laborant. Etsi verò prius illud Philosophorum genus summopere laudandum est, eò quod ad consequendam variam rerum cognitio-

nem, omnes intellectus sui vires unicè intendat: tamen nec alterum illud malè sentire videtur, quia contemplativæ Philosophiæ vel partem vel speciem aliquam ad effectionem seu operis molitionem refert: siquidem à Philosophorum principe illud tritum non frustra inculcatum fuit: ἡ τέχνη μιμεῖται τὴν φύσιν: id est, *ars imitatur naturam*, *2. phys. cap. 2. text. 22 4. meteor. cap. 7. 7. politic.* & alibi; Hinc Antiphon apud eundem in principio quæstionum mechanicarum dixit: τέχνῃ (γὰρ) κρατοῦμεν ὧν φύσει νικώμεθα.

Arte enim superamus ea, à quibus natura vincimur. Hinc illud vulgatum ait Philosophorum dictum, *Scientias peperit admiratio, artes indigentia seu paupertas.* Quapropter nec illi Astronomi vituperandi erunt, qui luculenter ostendunt, quod ex Astronomia, non saltem in reliquas Theoreticæ Philosophiæ partes, sed & in omne vitæ genus artesque utilitates uberrimæ redundent.

Primùm enim sideralis scientia Philosophiæ studioso ad primam Philosophiam iter instruit, assuefaciens eum à sensibus abstrahere & abstracta intellectui subjicere. Etenim licet Astronomia circa sensibilia, Astra nimirum, versetur, tamen non ea ut sensibilia corpora, sed secundum rationem rei Mathematicæ; non secundum principia motus, sed secundum quod astra quanta sint, tractat: hinc distantias, situs & magnitudinem siderum, ope Arithmeticæ & Geometriæ pervestigat. Proinde quum hæc præstantissima scientia circa ea quæ à materia sensibili abstracta, & in materia intelligibili posita sunt, versetur, eò melius Philosophus huius peritus universalia entia intellectu apprehendere poterit. At quando Astronomus quantitatem motumque siderum considerat, eum tandem ad primum motorem astrorum naturali indagatione, imo tandem ad id, quod est supra & extra omnem motũ, penetrare verisimile est, quippe illud quod est extra motum est ens infinitum, adeoque architectus totius mundi, communisq; siderum hominumque pater JEHOVAH: ita enim intellectus, omnium rerum dictator, in Philosophia transnaturali rectè inferre docet. Hinc & Stagyrita de universa humana sapientia bene meritus, ex numero orbium cœlestium, numerum Intelligentiarum, *lib. 12. physic.* collegit.

Deinde etiam naturalis Philosophus multa ab Astronomis inventa & demonstrata usurpat, sicut nec Aristoteles, *lib. 2. de Cœlo*, & aliis in locis diffitetur. Disceptatum hactenus fuit diu à Physicis, *sitne Galaxia meteoron, vel substantia quadam cœlestis?* Averroës apertè dubitat, quod Galaxia sit trajectio quædam aërea: fatetur enim se Cordubæ in Hispania, & Marochi in Africa in eodem prorsus lacteæ viæ margine Aquilæ sidus aspexisse: quod in illa civitatum distantia fieri non potuisset, si galaxia in sublunari aëris regione:

hæreret

hæreret: quandoquidem inſignem tanta diverſitas locorum parallaxin in viſione inferret. Proinde Nobiliſſimus Aſtronomus Tycho Brahe, *lib. 1. progymnaſm. Aſtron. pag. 795.* demonſtrat, quod lacteus circulus ſit ſubſtantia quædam cœleſtis, à materia reliquarum ſtellarum non diſcrepans, per medium fixarum orbem incedens, illumq́ue in duo apparentia hæmiſphæria dividens. Galilæus Galilæi, *in nuncio ſiderio, pag.* 32. refert, quod Teleſcopij beneficio hanc ſemitam Jacobi diligenter conſpiciens, deprehenderit, hanc viam ſideriis gemmis eſſe ſtratam, & proinde unum continuum ignem, obtuſum tamen, & lactei coloris æmulum referre. Deſcribit igitur galaxiam, quod ſit innumerarum ſtellarum acervatim conſitarum congeries, ſeu circulus luminoſus, ex minutiſſimis firmamenti ſideribus concinnatus, cœlum per ♊ & ♐ in duo hæmiſphæria dividens. Hic circulus tamen non perfectus eſt, ſed aliis in partibus deflectit, & tortuoſus fit; alibi enim duplex, triplexq́ue excurrit, ut inter cygnum, ubi latiſſimus. Joſephus Acoſta, *lib. 1. hiſtoriæ Indicæ, cap.* 2. obſervavit, circa polum auſtralem galaxiam mirificè ſplendeſcere, multiſq́ue locis maculis deficientis Lunæ inſtar diſtinctam eſſe, eaſq́ue immobiles perſeverare.

Adhæc cauſſam motus reciproci maris, hoc eſt, fluxus atque refluxus ejus, nonnulli Phyſici ventis, alii aquæ evaporationi; alii ſenſui animali terræ; nonnulli etiam ſpiritibus partim ſub mari, partim circa mare verſantibus tribuerunt. At cùm Aſtronomi animadverterint, mare ebullire & intumeſcere ſub perpendiculo Lunæ, vel ſupra vel infra terram exiſtentes, idcoq́ue illi rectiùs cauſſam æſtus maris virtuti Lunæ magneticæ aſſcripſerunt: hæc enim ſpiritum aquæ marinæ motorem ſolicitat, & in aërem quaſi attrahit, unde Oceanus intumeſcere, & cumulus aquarum augeri, mareq́ue aſſurgere & litora replere incipit, unde motus aquarum in altum maximè deprehenditur. Luna igitur perpendiculariter mari im̃inens & ab Horizonte ad lineam meridiei vel mediæ noctis aſcendens cauſſa æſtus maris ſufficiens eſſe poteſt: ita ut prætereunte & deſcendente ☽ è perpendiculo loci unius cumulus ille aquarum rurſus ſubſideat. Reliquas verò motus maris varietates iter ejus ad centrum terræ non ſemper directum efficere poteſt: declinat enim, quando depreſſum invenit alveum; ſtagnat, ubi in æquabilitatem Soli incidit; eſt ubi in gurgites rotatur, ſi perniciori lapſu in procurrentes ſcopulos impegerit. Declinatio igitur, ſtagnatio, & vortices aquarum ab extraneis & adventitiis Soli cauſſis, æſtus verò maris à magnetica Lunæ virtute ſpiritum aquæ marinæ impellente proficiſcitur.

Præterea πλόϊμξις ſeu via magnetis in æquilibrio ſe ſead polos mundi convertendi magnum quidem uſum in Gæodæſia, Geographia, arte me-

chanica, bellica, metallica, nautica, & architectonica, ut quæ Philosophis antiquis, (Platoni, Aristoteli, Theophrasto, Dioscoridi, Plinio, Solino, &c.) incognita fuit, magnum præstat usum; cùm tamen rarissimè obelus magnetis exactè ad suum polum dirigatur, nec acus exquisitè in lineam meridianam cadat, adeo ut interdum ad 20 gradus declinet; ideoque Astronomia ejus imperfectionem corrigere, & declinationem ejus à puncto Septentrionis præcisè juxta gradus Horizontis indicare potest. Observavi enim apud nos, Magnetem ad novem, quandoque etiam ad undecim gradus à polo versus alterutram partem deflectere. Quod si igitur quispiam hanc declinationem ab Astronomia corrigendam in usu magneticæ acus neglexerit, is certè à scopo sibi præfixo non potest non magnopere aberrare.

Exinde multa Astronomiæ insunt, quorum usus in vita humana se longè lateque diffundit. Quandoquidem annum ejusque partes legitima periodo, observatis exactè Æquinoctiis ac Solstitiis, circumscribit, mēstrua spacia rectè definit, dierum noctiumque vices, intervalla, quantitatesque examussim determinat, demonstrat & distinguit; imò certam rationem reddit, rerum quæ mirabiles & pæne impossibiles esse videntur, nimirum cur Naucleri, qui nave ab Occidente in Orientem mare trajiciunt, plerumque absoluto curriculo itineris maritimi in suis fastis die abundent; illi verò qui ab Oriente Occidentem versus navigant, uno interdum deficiant? Isti enim, cùm pelagus ad motum Solis diurnum decurrant, ob celeritatem motus navis, elapso aliquot mensium spacio, se insciis integrum diem quasi intercalare queunt: illis verò deest unus dies, qui curriculo navis obnituntur motui Solis, cujus rei duas celebres longasque navigationes testes producam. Quædam navis ductu Ferdinandi Magellani ex Hispania 20. Septembr. an Chr. 1519. discedens per antarcticum fretum, via ad Indos facta, & proinde ab occasu in ortum tendens, reversa est elapso ferè triennio, anno Christi 1522. 6. Septemb. Naucleri v. in suo diario numerarunt diem 7. Septemb. adeoque unum diem abundarunt; sicut Cardanus, *lib. 12. de rerum varietate,* hanc historiam, ex *Cizæ, Tomo 2. histor. Peruvia*, recenset. Notum quoque est ex solenni navigatione à Belgis anno Christi 1623. instituta, & publicis typis evulgata, quod illi solventes anno 1623. versus occasum navigaverint, & mense Martio anno 1625. ad Moluccas Insulas appulerint, ubi secundum diarium suum egerunt diem quintam Martii, alii verò in hisce lo[cis] commorantes diem 6 numerarunt; atque ita unum diem desiderarunt [in] fastis; contrarium iis accidit, qui in Orienté ex Occidente trajicientes [...] redierunt. Hæc differentia sanè Judæis peregrinantibus scrupu[lum] [...] de celebrando Paschatis festo injicere posset, quando alii

plus,

plus, alii minùs in diebus numerant, præsertim quando sibi ab utraque plaga mundi, Oriente & Occidente obviaverint. Sed hanc controversiam horum Rabbinis decidendam relinquimus: noster scopus hîc est ostendere, quod illi exactè temporum rationem digerere noverint, qui sideralis scientiæ non sunt imperiti, quiq; instructi cognitione motuum & eclipsium Luminarium: illi enim complures intervallorum epochas asserere stabilireq; queunt. Non ignobiles enim Historici res gestas eclipsibus vel Solis vel Lunæ alligant, ex quarum notitia istius temporis scientia impetrari potest: tempus enim originem ducit à cœlo, & ab ejus motu conversioneque potissimum dependet, id quod uberius in mea Eclipsigraphia huic parti inserta aliquot exemplis ostendi, pluraque in lectione Historicorum quotidiè occurrere possunt. Annon gravissimi autores ex. gr. Halicarnasseus, *lib.* 1. *Rom. antiquit. cap.* 10. *& lib.* 2. *cap.* 6. Plutarchus, *in Romulo*, Eusebius, *in Chronico, num* 1244. Seneca, *epistol.* 108. Cicero *in somn. Scipion.* Valer. Max. *lib.* 5. *cap.* 2. Augustinus *lib.* 3. *de civitate Dei cap.* 15. scribunt, quod in conceptu Remi & Romuli totus Sol defecerit, idemque rursus in discessu Romuli factum sit? Fidem huic historiæ epilogismus eclipsium conciliat. Etenim calculus nostrarum tabularum Eclipsigraphicarum prodit hâc conceptionem factam esse anno M. 3172. die 4. April ad Calendar. Julianum, hora 10 minut. 11. ante meridiem, in meridiano Romano, in ♉ gr. 41 min. ♈. Digitiq; Ecliptici ferè 9 evadunt. Posterior obscuratio Solis accidit anno M. 3235. die 26. Maji, h. 7. p.m. ubi itidem ☉ ultra 8 digitos defecit, & Luminaria secundum restitutum calculum in 26. gr. 11 / ♉ exstiterunt. Interstitium hoc annorum cum ætate Romuli & regni 37. egregiè consentit. Atque ita fides tot gravissimis autoribus restituitur, quæ alioquin negatione hujus geminæ eclipsis labefactaretur.

De Thaletis Milesij ætate à me disquisitum est *in Corollario problematis 7. huius pædiæ astronomicæ.* Cùm autem Plinius, *lib.* 2. *nat. hist. cap.* 12. Cicero, *lib.* 1. *de divinatione*, Solinus, *cap.* 25. Plutarch. *lib* 2. *de placitis Philosoph. cap.* 24. literis de eo prodiderint, quod apud Græcos primus rationes defectus luminarium investigaverit, & nominatim Solinus l.d atque Eusebius, *lib.* 2. *Chronic. num* 1430. recenseant, quod anno tertio Olympiadis 49. defectum Solis prædixerit, Plinius autem ad annum quartum Olympiadis 48. eum adstringat; idcirco calculus Eclipsigraphicus hanc litem dirimere potest, uter eorum rectiùs tempus eclipsis Solis denominaverit. Audiamus etiam hîc Herodotum, qui *libro* 1. *de bello inter Lydos & Medos*, ita scriptum reliquit: *Sexto anno pugnâ consertâ accidit durante conflictu, ut ex die repente nox efficeretur. Hanc diei mutationem Thales Milesius Ionibus prædixit futuram, tempus addens quo*

mutatio

mutatio ista facta est Büntingus hîc quidem Plinio adhæret, atque hoc Solis deliquium anno quarto Olympiadis 48. alligat, idque ex calculo Prutenico 11. digitorum cum dimidio facit: Verùm fallitur hîc ille Vir, alioquin longè diligentissimus in calculo eclipsium memorabilium ante & post natum Christum. Nam etsi hoc anno, qui nobis est annus mundi 3367. d. 22. Octobr. manè ante 6. interlunium eclipticum acciderit: tamen cùm Sol eo tempore nondum in Græcia oriri potuerit, idcirco illa Eclipsis neque Sardibus Lydiæ, neque in Græcia, neque Romæ conspici potuit, sed ab illis populis qui per duas horas hisce locis occidentaliores fuerunt. Itaque nostræ tabulæ numero Pliniano mendum inesse, hancq; eclipsin biennio post accidisse, anno scilicet tertio finiente Olympiadis 49. ostendunt, anno M. ad Sethi Calvisij Chronologiam nostrasque Tabulas 3369. die 16. Martij, fer. 6 Et quidem Sardibus Lydiæ apparens tempus totalis obscurationis Solis incidit in horam 8. min 13. ante meridiem, & luminaria in 19. gr. 18. m. ♓ versata sunt, Tabulæq; hanc eclipsin 8. propemodum digitorum faciunt. Quod si forsan nobis hîc quispiam objiciat, Tabulas nostras hanc eclipsin non totalem exhibere, ille sciat, nondum satis exploratas & perspectas esse differentias Longitudinum locorum: proinde si Sardes Lydiæ orientaliores constituamus, quàm receptæ Tabulæ mōstrant, ita ut visa eclipsis ☉is ad horam 10. antemeridianam accedat, omnino calculus noster Astronomicus hanc defectionem Solis omnimodam præbebit. Deinde etiam reliquum ἐπιπροσθήσει nebularum compensari potuit, cujus rei Optici rationem reddunt. Jam ex infallibili hujus temporis charactere, Herodoti locus emendandus est, ut pro Cyaxare Astyages intelligatur, atque ex collatione gravissimorum autorum, Herodoti, *lib.* 1. qui *Clio* inscribitur, Eudemi, *in historiis Astrologicis* teste Clemente Alexandrino, *lib* 1. *Stromat.* Eusebii, *posteriore lib Chronic Olympiade* 48. Ciceronis, *lib.* 1 *de divinatione*, Plinii, *lib.* 2. *nat. hist. c.* 12 Solini Polyhistor. *cap.* 25. qui historiæ huius & eclipsis mentionem faciunt, fides utrique restitui potest. *Thales Milesius primus omnium investigavit defectus utriusque Luminaris rationem, & Ionibus prædixit Eclipsin Solis eo tempore, cùm Astyages filius Cyaxaris Rex in Media, & Alyattes Crœsi filius in Lydia, anno tertio Olympiadis* 49, *& anno urbis conditæ* 172. *ad apertum prælium descenderent. Interventu autem huius defectionis Solis & mutationis diei in noctem, Reges deterriti in amicitiam coierunt, & inter Alyattem Lydum, & Astyagem Mediæ Regem firmata sunt jura pacis eo modo quem Solinus d. l tradit.* Atq; ita beneficio Astronomiæ hæc Eclipsis non tantùm in suam sedem est reposita, sed & loca gravissimorum historicorum emendata. Calculum hujus eclipsis vide *in* *pædia, sect.* 2 *pag.* 240. *& seqq.*

Cæte-

Cæterùm quod ars in rebus Astronomicis naturam elegantissimè imitetur, ex industria Archimedis aliorumq́; magistrorum Astron. abundè patet. Siquidem Archimedes à Cicerone, *lib 2 quæst. Tusculan.* laudatur, quod Lunæ, Solis, & quinq; errantium motus in Sphæram alligaverit, adeo, ut tarditatem & celeritatem dissimilimi motus una regeret conversio. Hoc divinum Archimedis ingenium prædicat etiam Cassiodorus, vir divina ac humana sapientia eminentissimus, *lib.1 variar epist 45*: *Hæc* (inquiens) *astronomia fecit secundum Solem in Archimedis sphæra decurrere: hac altera Zodiacum & circulum humano consilio fabricavit: hæc Lunam defectu suo reparabilem artis illuminatione monstravit parvamq́, machinam gravidam mundo cœlum gestabile, compendium rerum, speculum naturæ ad speciem aëris, incomprehensibili mobilitate volutavit.* Hanc sphæram Claudian. *in lib. epigram. versic.* 563. in vitream vertit, canens:

Jupiter in parvo cùm cerneret æthera vitro,
Risit, & ad superos talia dicta dedit, &c.

Ubi forsan ad historiam Saporis Persar. Regis allusit, de quo memoriæ proditum est, quod machinam tam grandem è vitro construi fecerit, ut in ejus centro tanquam in terræ sphærula sedens, sub pedibus etiam astra spectaret exorientia & Occidentia, ut sic, cùm mortalis esset, supra tamen omnẽ mortalitatis conditionem esse, & naturam arte sua superare videretur. Vide Cardan. *in lib. de subtilit. & lib. de artib.* Celebratur quoq; à Trithemio, *in Chron. suo Hirschaugensi, p* 180. tentorium, quod ann. Chr 1232. Sultanus Babyloniæ Friderico II. Imperatori dono misit. Hoc n. mira arte ita fuit constructum, ut luminaria in eo cursum suum rectè exercerent, & horæ tam noctis quàm diei exquisitè indicarentur, cujus precium quinq; milliones auri superasse scribit. Prædicanda hìc etiam venit mira indoles Petri Apiani, qui *in suo opere Cæsareo*, spiris, corallis, helicibus, diversisq́; schematismis & figuris, motum omnium planetarum repræsentavit, quem & alii perspicacis ingenii viri imitati sunt, suoq; artificio se genuinos naturæ imitatores esse, ostendere voluerunt. Ut taceam hìc automatopœorum κενοτεχνίαν, qui in globis cœlestibus, & in aliis machinis affabrè elaboratis rotulisq́; convenientibus ornatis, motum primi mobilis & luminarium exprimunt, ut inde perennis famæ palmã adipiscantur. Utq́; omittam hìc fabricam sciathericorum, de qua *problemate* 8 & 15. *pædiæ astronomiæ continuata* actum est, cuius utilitatem ita Cassiodorus, *antè nominato loco*, nobis cõmendat: *Radius immobilis & parvus hoc peragit, quod tam miranda magnitudo Solis discurrit, & fugam Solis æquiparat, quod motum semper ignorat. Inviderent talibus, si astra sentirent, & meatum suum fortasse deflecterent, ne tali ludibrio subjacerent. O artis inæstimabilis virtus, quæ dum se dicit ludere, naturæ prævalet secreta vulgare.* Hactenus Cassiodorus. Quem etiam usum Astronomia

nomia in investigatione dierum criticorum præstet, *sectione tertia pædiæ astronom.* ostensum est: unde eum hîc silentio prætermitto, ne in pædia actum agere videar.

Astronomia quoq; fons & origo est Cosmographiæ: nam absq; adminiculo huius descriptio terreni globi rectè administrari, vel locorum distantiæ perfici nequeunt: Hæc n. docet omnia & singula loca secundum Longitudinem, prout vel Orientem vel Occid. respiciunt, & secundum Latitudiné, prout in meridiem vel septentrionem porriguntur, distribuere; imò admirabile commodum ad eos rediit, qui ope huius disciplinæ ignotas antea terras detexerũt, ut taceam immortalem famam quam sibi apud posteritatem conciliarunt. Henricus Regis Lusitan. filius, ex astrorum cognitione, in qua magnam vitæ partem consumserat, collegit, esse in Oceani vastitate novas insulas novasq; gentes; unde missa eò classe à naucleris tentari voluit, an res suæ sententiæ responderet. Hæc navigatio autem feliciter successit an. Chr. 1420. Classis n inter Ulyssiponam & Insulas fortunatas ad angustam quidem insulam sed fertilem appulit, cui Maderæ nomen impositum est. Ab hoc tempore extima Africæ litora legi cœperunt, & ad Indiam atq; Sinensi regnũ invicta virtute & ingenti gloria nominis Lusitani penetratum est, sicut refert Jo. Marian., *lib.20. de rebus Hispan cap.11. p.m.* 230. Hos Lusitanos quadriennio post sequutus est Betencurius Belga, qui insulas illas, quæ hodie à frequentia avium huius nominis, Azoræ vocantur, occupavit, & Hispanis vendidit, velut narrat Jac. Augustus Thuan. *lib.1 histor. ad ann. Chr.* 1505. Elapsis ab eo tempore 68. annis Christoph. Columbus, auspiciis Ferd. Castiliæ Regis, ad pervestigandas novas terras cum patre suo se mari ventisque commisit, & novum orbem in Atlantico mari Hispanis primò aperuit, qui etiam haut dubiè ex Astronomia edoctus fuit, quod adhuc suo tempore unum hæmisphærium orbis detectum sit, alterum verò adhuc lateat, sicut ex prædictione Lunaris Eclipsis aliisq; suis rebus gestis conjicere licet. Unde rectè de eo canitur:

> *quod rate velivola occiduos penetrarit ad Indos,*
> *Astrorum consultus, & ipso nobilis ausu.*

Hunc etiam paulò post æmulatus est Sebast. Gabitus Venetus, astronomicarum rerum non imperitus, qui Henrici VII Anglor Regis sumtibus, anno post Chr in terris natum 1496. primùm in eam Indiar. provinciam, quæ Floridæ nomine insignita est, venit; veluti id multorum testimoniis confirmat præfatus Thuan. *lib.24. histor. sui temporis*, ad an. Chr. 1568. Et quia multa ditissima navigiis regna norunt, & à suis Astronomis quoque persuadentur, multa adhuc loca in utraq; orbis parte nondum esse cognita & perspecta; id-

circò

circo adhuc palma iis in medio poſita eſt, qui plura loca ſuis navigationibus patefacient.

Inſuper etiam patet, quod hæc ſcientia ſummè ſit neceſſaria ad Reipubl. adminiſtrationem, ut agriculturam, bella gerenda, & ſtratagemata belli excogitanda. Certè Sulpit. Gallus, inclitæ P. Æmilii victoriæ, quam cont. Regem Perſeum hoſtem Roman. obtinuit, plurimùm profuit. Nam quum ejus Legatus eſſet, ac ſerena nocte Luna ſubitò deficeret, eaq; velut diro quodam omine perterritus exercitus Romanus animum congrediendi cum hoſte ferè abjeciſſet, de naturalibus deficientis Lunæ cauſſis plenè diſſerendo, alacrem eum in aciem miſit. Valerius Maximus, *lib.* 10. *cap.* 2. Plinius *lib.* 2. *cap.* 12. Plutarchus, *in vita Pauli Æmilii.* Contra Nicias Athenienſis exercitus in bello Siculo Imperator, ob ignoratam cauſſam Eclipſis Lunaris, cùm obſediſſet Syracuſas, territus eſt, ut ſolutionem obſidionis triduum differret; unde ſe & ſuum exercitum non ſine ingenti reipublicæ Athenienſis damno perdidit, ſicut legere eſt apud Plutarchum, in *vita Niciæ*, Thucydidem, *lib.* 7. & alios. Cleomenes quoque Spartanorum Rex Megalopolim proditione occupaturus, propter ſolſtitii ignorantiam conatu ſuo fruſtratus eſt, Polybius, *lib* 9. Quod etiam Columbus ab aſtronomia inſtructus fuerit ſatis inde patet, quod anno Chriſti 1505. prædictione defectionis Lunaris, tanquam ſtratagemate quodam bellico utens, apud Jamaicam Inſulam Indiæ Occidentalis exercitum ſuum Chriſtianum ab imminente mortis periculo eripuerit, quemadmodum hæc hiſtoria pleniùs cognoſci poteſt, ex Indiæ Occidentalis ſcriptoribus, *lib.* 4. *cap.* 14. & ex epiſtola à Jo. de Roja ad Carolum V. Imp. quam commentariis ſuis in planiſphærium univerſale præpoſuit, & ex *ſectione* 2. *meæ pædiæ Aſtronom. continuatæ, p* 225. Ne dicam hîc quomodo Hannibal vel hac arte vel huic ſimili edoctus ſarmentis ad cornua taurorum accenſis, primis noctis tenebris vigilias Fabii terruerit, ut Livius, 3. *decad. lib.* 2. narrat. Neve etiam de altera hiſtoria, cujus Hector Boëtius, *lib.* 8. *hiſtor Scotic.* meminit, de quodam Rege Scotiæ, qui quoſdam è ſuo exercitu indutos piſcium ſquamis tanquam veſtibus & putridis lignis ceu baculis armatos, nocte quaſi angelico ſplẽdore conſpicuos reddidit, ut ſuos ad fortitudinem in prælio excitaret, & ſpe victoriæ promiſſæ, quam & obtinuit, animaret, multa verba faciam. Id ſaltem adhuc contendo, quod hæc cœleſtis doctrina nos mortales à rebus terrenis, caducis & fluxis abſtrahere, & ad ſempiterna perenniaque bona deducere poſſit, ita ut animus noſter contemtis huius terreni puncti anguſtiis per liberum aêra inter aureum Solem, argenteam Lunam, & reliqua lucida globoſaque ſidera, mira dulcedine ſpaciari, & in amorem creatoris horum rapi poſſit. *Inviſibilia enim Dei à creatura mundi per*

ea quæ facta sunt, intellectu conspiciuntur, ait D. Paulus ad Rom. I. 20. Imò *cæli enarrant gloriam Dei, & opera manuum ejus annunciat firmamentum*, Psal. XIX. 1. *Et qui horum pulchritudine delectati deos putaverunt, sciant, quanto his Creator eorum speciosior est; à magnitudine enim speciei & creaturæ cognoscibiliter poterat creator horum videri*, Sapien. cap XIII. 4 & 5. quippe *sic mens erigitur, sicq; intellectus exercetur, ut invisibilem Deum per visibilia opera mitaremur, & erecti ad fidem & purgati per fidem etiam invisibiliter ipsum videre cuperemus quem de rebus visibilibus invisibiliter nosceremus, sicut* verè augustus ecclesiæ Doctor D. Augustinus ita nos docet, *tract.* 24 *in Iohann.* & *tomo* 9 *suor. operum, col.* 73. *lit. H.*

Felices animæ quibus hæc cognoscere primùm,
Inq; domos superas scandere cura fuit. Ovid. *lib.* 1. *fast. v.* 302.
Credibile est, illos pariter vitiisq; jocisq;
Altiùs humanis exseruisse caput.

Sed venio nunc ad ipsas decennales meas Ephemeridas, ex Astronomia Danica & Tabulis Rudolphinis, Nobilissimi Tychonis Brahei observationib. suffultis supputatas, quas Deo fortunante, ad calcem usq; obstinatè deduxi, & prædit Astronom. continuata, non minùs utili quàm necessaria, ornavi & locupletavi: neq; n hunc laborem mea professione indignum esse censui. quidem & Medicum Astronomum esse oportet, uti principes Medicorum Græcorum ingenuè confessi sunt, Hippocrates, *ib* 1 *aph* 1. & 4. & *seqq* & in libello *de aëre & aqua*, Galen. *in* 3. *comm lib* 1. *epidem.* Aetius, *tetrabibl* 1. *ca.* 164.

Hoc autem opusculum meum Astronomicum superiori anno auspicatum, & jam horis extraordinariis feliciter absolutum, quibus digne offerrem, nisi Vobis, MAGNI VIRI, non inveni: Vos enim rerum Mathematicarum non tantùm amatores, sed & Patronos ac Promotores existere palam est Hinc celeberrimo vestro Gymnasio insignes Mathematicos, Dn. D. Jungium, Matheseos, Philosophiæ, & Medicinæ consultissimum, & Dn. Thassium, Mathematum penes vos professorem præclarum, (quorum amica grataque conversatione, non sine jucunda recordatione, ante biennium, & quod excurrit, usus sum) præfecistis. In hisce vestra pubes scholastica Doctores habet, quasi fato natos, ad excolendam mathesin, & reliquas disciplinas philosophicas, ex quorûm sedula institutione vestrorum civium liberi florida sua ætate egregium ornamentum, nec leve præsidium ad superiores facultates eò facilius capessendas sibi comparant. Sub hisce optimis Gymnastis assiduè formantur ad mathematicam philosophicamque doctrinam & virtutem imbibendam. Quanquam verò non sum nescius, has esse vestras minimas virtutes: quis enim non etiam admiretur prædicet & suspiciat vestrum fervorem in propaganda orthodoxa religione [...]

pheræ.

[illegible]: Sapientiam in rectè administranda & amplificanda republica: prudentiam in consiliis & gubernandis vestris numerosis civibus, nec non pace conservanda, in hoc publico tumultu bellico passim grassante.

Per Musarum igitur & Uraniæ imprimis sacra juraque Vos MAGNOS VIROS obnixè rogo & obtestor, ut hasce meas lucubrationes Astronomicas serena fronte suscipere, benevolè approbare, meisque cœptis aspirare non dedignemini; quo alacriùs & tertiam Ephemeridum partem, quæ adhuc superest pertexenda, aggrediar, & publici boni caussâ propediem evulgem. DEUM autem bonitate Optimum, potentia Maximum, devotè veneror, ut à vestra Republica omnes calamitates, quæ hisce turbulentissimis temporibus multas pessundederunt civitates, longè abesse sinat, consilia vestra magis prosperet, suamque iis gratiam benedictionemque, uti hactenus fecit, affundere pergat.

Valete VIRI MAGNI. In Veteri Sedino Pomeranorum, Calendis Decembr. Anno æræ Christianæ exeunte CIↃ. IↃ. CXXXV.

 LAUREN-



LAURENTIUS EICHSTADIUS.

per anagramma.

IN TE LAURUS, VIDE, HIC STA.

VItam quæ faciunt beatiorem, &
jucundam EICHSTADIO *meo fideli,*
(Quem plus diligo quàm meos ocellos)
Opto, comprecor, intimeq́; poſco.
IN TE LAURUS adeſt, VIDE, HIC STA, & audi,
Quem docti tibi conferant honorem.
Te doctum Medicum ſcholæ Galeni,
Expertum Chymicumq́; Theſophraſti,
Sollertem Aſtronomumq́; gratulantur.
IN TE LAURUS adeſt, VIDE, HIC STA, & audi,
Quem docti tibi conferant honorem.
Mirandam ille ſcientiam in Matheſi
Nactus, quam didiciſſe plenum ad unguem
Verax Uraniæ probat Senatus,
Ejus publica ſcripta tum probabunt.
Secretarius aſtrici eſt palatI,
Stellarumq́; obitus tenens & ortus,
Quæ ſint temporibus futura certis,
Scrutari ingenio ſuo potens eſt:
Atq́; artem docet ille ſideralem,
Stellarum vagum iter ſagax notavit.

Hæc ejus lege scripta, tunc videbis.
Ergo hæc LAURUS *adest*, VIDE IN TE *&* HIC STA:
Hunc doctus nequit invidere honorem.
Quid? multi Medicum esse Te peritum
Norunt, & gravibus levare morbis
Ægros posse: adeo in tua hac virili
Ætate, & quasi flore primo in ipso
Ætatis. Quid enim putas futurum
Autumni tacitè fluentis horis?
Ergo hæc LAURUS *adest*, VIDE IN TE *&* HIC STA:
Hunc doctus nequit invidere honorem.

D. David Herlicius
ex amore fecit.

Ad Virum Clarissimum & Excellentissimum,

DN. D. LAURENTIUM EICHSTADIUM,
INCLUTÆ REIPUBL. STETINENSIS PHYSICUM ORDI-
narium, Medicum & Mathematicum celeberrimum, Dn. Ad-
finem & Amicum honoratissimum, EPHEMERI-
DES suas edentem.

Ἐπίγραμμα.

EST aliquid, proprias *Plantarum* noscere vires,
Unde parari ægris Pharmaca mille solent.
Nec minus est, veras *morborum* noscere causas,
Atque salutares his adhibere manus.
Majus at, *Astrorum* rapidos cognoscere motus,
In morbis possint Sidera quidque poli.

Eclipses

Eclipses Solis, Lunæ, Casusque futuros
Præscire ex Astris, summa ea notitia est.
Hæc de Te, EICHSTADI, meritò jam dixero, PLANTAS,
ASTRAq; cum MORBIS nam Tibi nosse datum.
Quod facis, ulterius SCRIPTIS extendere Nomen
Perge tuum, cœptis adsit JÖVA, precor!

LAURENTIUS EICHSTADIUS.
ἀναγραμματιζόμενος elisâ aspir.
EN CLARUS VITÆ STUDIIS.
ἐξήγησις.

EN *CLARUS VITÆ STUDIIS, nempe* Arte medendi
Clarus es, Astrorum notitiâque *simul*.

Aliter.

EN *VITÆ* Eichstadius *STUDIIS Vir CLARUS*, *Eumq;*
Cognitio Astrorum *clarum & Hygæa facit*.

ANDR. HILTEBRANDT,
Medic. D.

Lect.



LECTORIBVS SALVTEM.

QUod in prima mearum Ephemeridum parte, sub finem Pædiæ Astronomicæ, benevole Lector, promisi, me scilicet in reliquis Ephemeridum partibus, Canonem Logarithmorum ac Mesologarithmorum compendiosâ methodo propositurum, ejusq; usum amplissimum in solutione Triangulorum, in condendis Tabulis primi Mobilis, in calculo Eclipsium, &c. ostensurum, illud jam in hac altera Ephemeridum parte implere cum bono Deo studeo: Idq; eò libentius facio, cùm non dubitem, hanc doctrinam, hactenus non adeò perspicuè traditam, Astrophilis ac Mathematum studiosis minùs displicituram. Quandoquidem hæc disciplinæ pars non solùm omnibus Astronomicis; verùm etiam nonnullis Geometricis quæsitis satisfaciendis deservit: si enim siderum motus admiraris, si Planetarum æqvationes rectè numerare, ipsasq; in Tabulis collocare gestis: Si Eclipses Luminarium exactè supputare, Latitudines etiam reliquorum Planetarum præcisè definire, in qualibet regione Ascensiones & Arcus diurnos, mediationem cœli, Ortum & Occasum obliquum stellarum fixarum nosse velis, per hoc mirificum Canonis Logarithmorum compendium tibi janua panditur. Insuper etiam, cùm reliquæ Geometricæ figuræ ad Triangulum usq; resolvantur, tu breviter, facillimeq; per solam Prosthaphæresin numerorum in Canone expressorum, solutionem eorum obtinebis, atq; sic hoc adminiculo instructus, per reliquas disciplinas Mathematicas, per Geodæsiam, Perspectivam, Gnomonicam, Dioptricam, &c. penetrabis, si prius in Elementis Euclidis, atq; Observationibus motuum corporum cœlestium, tanquam principiis, sis parumper exercitatus. Hæc igitur per hanc Pædiam Astronomicam continuatam perspicuè ac succinctè in tribus sectionibus tradam. Ac in primâ quidem sectione *Logarithmorũ Trigonometriam* persequar, in altera *Eclipsigraphiam:* in tertia etiam aliquid *de diebus Criticis*, earumq; causis atq; investigatione adjiciam. Interim, si ex hoc qualicunq; meo labore posteritas aliquem fru-

quem fructum perceperit, erit, quod gaudeam, Deoque unicè gratias agam, eò quod in studiis meis hunc finem assecutus fuerim. Tu verò, mi Lector, me de hisce brevibus disserentem benevolè lege, res ipsas penitùs cognosce, meumq; tibi commodandi studium in bonam partem interpretare.

SECTIONIS PRIMÆ CAPUT I.

De Genesi ac Ortu Canonis Logarithmorum quædam προγνωρίσματα.

INveniuntur nonnulli Mathematici vel cunctantes vel dubitantes de recipiendis in usum Astronomicum Logarithmorum numeris, loco Canonis Sinuum, eò, quod operatio per eos nimium à continua demonstrationum inspectione, quæ incipientibus Mathesin maximè necessaria est, recedat, unde Tirones facilè in erroris insidias pertrahi possint. Ut igitur horum objectioni occurratur, operæ pretium facimus, si hîc Genesin & Ortum Logarithmorum, quo scil. calculo, quave Logisticæ methodo hi numeri acquirantur, prælibemus, ut cognitis demonstrationis legitimæ rudimentis, hujus Canonis usus posthac minùs displiceat. Fluunt igitur omnes Logarithmi ex Canone Sinuum: *Sinus* autem *sunt lineæ Geometricæ Circulo inscriptæ.* Porrò sinus totus est radius seu Semidiameter circuli : qui totus sive maximus dicitur, & hîc assumitur in particulis 100000, ut ratione harum partium omnes alij Sinus mensurari, & proportione omnium sinuum ad Sinum totum exprimi possint. *Logarithmus* autem *cujusq; sinus est numerus quamproximè definiens lineam, quæ æqualiter crevit, interea, dum sinus totius linea proportionaliter in illum sinum decrevit, existente utroq; motu Synchrono, atq; initio æquiveloce. Neperus in descriptione Canonis lib. 1. cap. 1. def. 6.* vel; *Logarithmus est numerus formæ, non quidem Logisticæ, cum titulis seu apicibus, sed simplicis & vulgaris, quo indicatur proportio, quam habet Sinus cujusq; arcus circuli ad Sinum totum seu Semidiametrum. Kepplerus in Tabul. Rudolph. cap. 8.* Etenim mensura cujuslibet proportionis inter 100000. & numerum eo minorem expressa numero, apponitur ad hunc numerum minorem in Cano-

Canone Logarithmorum, diciturq; LOGARITHMUS ejus, hoc est, ἀριθμὸς (numerus) indicans λόγον (h. e. proportionem) quam habet ad 100000. numerus ille, cui Logarithmus apponitur. Ratio verò decrementorum in Sinibus & accrementorum in Logarithmis talis est, ut Logarithmi ex o æqualiter h.e. proportione Arithmeticâ accrescant, dum linea sinus totius proportionaliter, h. e. proportione Geometricâ, in illum Sinum decrescit. Discernendi autem hic sunt Logarithmi primæ seriei â Logarithmis secundæ seriei ab illis ortis: Definitio enim Logarithmi primariò & evidenter numeris primæ seriei competit, secundariò verò & dependenter Logarithmis secundæ seriei, utpote quæ ab illis proficiscuntur.

Atq; initio quidem primæ seriei Logarithmi in Canone sunt suorum sinuum ad sinum totum complementa tamdiu, donec sinus totus 100000. in 99990. decreverit. Sunt autem limites primæ seriei Logarithmi singulorum sinuum â 90. seu Radio 100000. ordiendo, & in gradus 45. scil. sinuum numeros 70711. desinendo. Logarithmi primæ seriei majores arcu 45. graduū eliciuntur hac methodo: Sint in promptu termini Logarithmi major & minor, posteà horum differentia bisecta & minori termino addita, vel majori dempta efficit Logarithmum quæsitum. Terminus autem minor logarithmicus innotescit, si Sinum datum subtrahimus â Sinu toto: residuum enim vocatur terminus minor. Quando verò terminum minorem ducimus in Sinum totum & factum dividimus per sinum datum, prodit terminus major.

EXEMPLA.

Quærendi sunt termini Logarithmici primæ seriei sinus 97437, cui respondet arcus 77. grad. o min.

Pro termino minore Logarithmico.

100000	Sinus totus.
97437	Sinus datus.
2563	Terminus minor.

Pro termino majore.

2563	Terminus minor.
100000	Sinus totus.
256300000	Factus seu productus Num.

Fiat jam divisio per Sinum datum ope bacillorum Rhabdologiæ Neperianæ.

256300000	2
194874	
614260	6
584622	
296380	3
292311	
40690	0

Est ergo Terminus major quæsitus

2630	Terminus major
2563	Terminus minor
67	Differentia.
33	Semidifferentia addenda Termino minori.
2563	Terminus minor.
33	Semidifferentia.
2596	Logarithmus quæsitus Sinus 97437 & arcus 77. grad. 0 min.

Aliud Exemplum.

Eodem modo etiam inquiritur Logarithmus Arcus 76. gr. 34. min. & Sinus ei competentis 97264.

Pro Termino minore.

100000	Sinus totus.
97264	Sinus arcus 76. gr. 34. m.
2736	Terminus minor.

Pro Termino majore.

2736	Terminus minor.
100000	
273690000	Factus num.

Fiat

Fiat horum divisio.

2736000000	2
194528	
790720	8
778112	
126080	1
97264	
288160	2
194528	
93632	

Ergo datur

2812	Terminus major.
2736	Terminus minor.
76	Differentia.
38	Semidifferentia.
	ET
2736	Terminus minor
38	Semidiffer. addend.
2774	Logarithm. quæsitus.
	VEL
2812	Terminus major.
38	Semidiffer. ſubtr.
2774	Logarithm. quæſitus, ut antè.

Qui plura Exempla hujus praxeos & ejuſdem demonſtrationes ſcire expetit, ille *Neperi tractatum de conſtructione huius Canonis* conſultum adeat: Noſtrum inſtitutum tantùm eſt, quibuſdam exemplis oſtendere, quomodo numeri Logarithmorum ex ſinibus fluant, & propterea eadem ſit eorum demonſtratio, quæ ſinuum.

Cæterùm repertis Logarithmis primæ ſeriei omnium arcuum 45. gradus excedentium facilimo calculo habentur ſecundæ ſeriei Logarithmi, qui à 45. gradibus incipientes in o grad. porriguntur. Quippe datum arcum, cujus Logarithmum quæris, duplica, duplicato adjice Logarithmum arcus 30. grad. qui eſt 69315, & reſpondebit dimidio ſinui totius:

 à ſum-

â summa verò subduc Logarithmum complementi dati arcus, sic enim relinquitur Logarithmus dati arcus quæsitus: quæ regula itidem fluit ex proportione Sinuum. Qualis enim est ratio dimidii sinus de toto ad sinum dimidij alicujus arcus; eadem quoq; est ratio sinus complementi ejusdem dimidij ad sinum totius arcus, veluti id liquidâ demonstratione probat *Neperus in Tractat. de Construct. Canonis, posit. 55. p. 30.*

Exempla.

Quæratur Logarithmus	32 grad.	
	64 grad. Duplum	
	10670	Logarithmus ejus in prima se-
	69315	Logarithmus 30. grad. (rie
	79985	Summa grad)
	16482	Log. Compleměti dati arcus 58
	63503	Logarithmus quæsitus arcus 32 grad.

Ex hoc Logarithmo etiam fluit Logarithmus arcus bisecti, videlicet 16 grad.

Quæratur Logarithmus 16 Grad.		
	32 Grad. Duplum	
	63503	Logar. 32 gr.
	69315	Logar. 30 gr. Add.
	132818	Summa
	3951	Logar. Complem. Arcus 74 Gr.
	128867	Logar. Arcus 16 gr. quæsitus.

Idem modus etiam observatur in investigatione Arcuum 8. grad. 4. grad. 2. grad. 1. grad. ut & reliquorum Arc. seriei secundæ, ita, ut cognitis Logarithmis seriei primæ â 90 ad 45 gradus, reliquorum arcuum 45 gradibus minorum logarithmi expeditâ logisticâ inquirantur

Deniq; constructis methodo Neperiana tabulis Logarithmorum utriusq; seriei, inveniuntur etiam per solam Subtractionem Mesologarithmi, qui medium inter logarithmos primæ atq; secundæ seriei occupant locum.

locum. Quemcunq; enim cupis obtinere Mesologarithmum, tunc saltem logarithmum primæ seriei, qui in qualibet Tab. facie dextrum occupat locum à Logar. secundæ seriei, qui sinistrum tenet, subtrahe, & relinquetur Mesologarithmus quæsitus. Exemplo esto Mesolog. 32. vel 58. Gr.

In Canone Logarithmorum inveniuntur Log—i hunc Mesologarithmum ambientes.

63503	Sinister logar.
16482	Dexter logar.
47021	Mesologar. quæsitus.

Aliud Exemplum.

Pro 38 Grad. 31. min.

47362	Logar. sinister.
24535	Logar. dexter.
22827	Mesologar. quæsitus.

Ex hisce prælibatis constructionem CANONIS nostri LOGARITHMORUM ac MESOLOGARITHMORUM utcunq; apparere existimo. Qui verò scrupulosiùs & per quædam compendia hanc nosse desiderat, is NEPERI tractatum de construct. Canonis Logarithmorum, & Keppleri Chiliadas Logarithmorum adeat, ubi majorem facilitatem calculi, ejusq; demonstrationem fusiùs descriptam offendet.

CAPUT II.

De Dispositione ac Inquisitione tùm Logarithmorum, tùm Mesologarithmorum.

VT in Canone Logarithmorum facilitati calculi consulerem, legitimâ ejus dispositione opus erat. Quamobrē habet Canon iste columellas quinq; cum tribus inclusis intercolumniis. In *prima* quidem

columna

columna ſiniſtra deſcendente, & *ultima*, ſeu dextra aſcendente extant 90 (quot ſunt in quadrante) gradus cum ſuis minutis. Nam in fronte & margine ſiniſtro Deſc. ſemper arcus quiſq; â o gr. ad 45. excurrens, cum ſuis minutis reperitur; in calce verò h.e. in *quinta* facie & margine dextro Aſc. complementum ejus ad quadrantem extat, ita ut ſemper complementa arcuum ſingulorum in unum veniant aſpectum: quia eâ ratione in multis computationibus Geometricis calculus faciliùs expeditur. In *ſecunda* facie ſequuntur Logarithmi arcuum prioris ſemiquadrantis, qui ipſis Sinibus proportione reſpondent, ut antè etiam dictum fuit. In *tertia* facie ſuccedunt Meſologarithmi, qui exhibent proportionem Tangentis arcus, in fronte quidem cum + cruce tanquam ſigno poſitivo, additioniſq;; In calce verò cum — ſimplici lineola, tanquam ſigno privativo & ſubtractionis. NEPERUS & URSINUS huic numero nomen *differentialis* tribuerũt: Nos cum KEPPLERO cum voce *Meſologarithmi* permutavimus: ſiquidem ex ſubtractione duorum Logarithmorum, Meſologarithmum, veluti medium, ambientium, hic numerus reſultat, unde & non ſine re ei hoc nomen aſſignari poteſt. In *quarta* verò facie continentur Logarithmi majores 45. gradibus. Logarithmo verò, qui eſt in alterutro latere, ê regione cujuſq; arcus, *Antilogarithmi* nomen inditur: quippe contra poſiti, ita, ut ſic quilibet Logarithmus cujuſq; arcus ſit idem etiam *Antilogarithmus* arcus contra poſiti vel adjuncti, qui vel implet quadrantem cum illo, vel unus ab altero ſubductus quadrantem relinquit: hinc & omnes gradus totius ſemicirculi â 90. ad 180. exhibentur, id quod in calculo ſuam præſtat commoditatem. In Intercolumniis verò cujuslibet Logarithmi & Meſologarithmi deprehenditur differentia binorum Logarithmorum & Meſologarithmorum ad quinq; gradus primos denis unius ſcrupuli ſecundis debita: in reliquis verò gradibus ſingulis ſcrupulis ſecundis competens. Haſce differentiarum portiones ideò addidi, ut per haſce vel arcus, vel etiam numeri Logarithmorum & Meſologarithmorum accuratè limitari poſſint, & inſuper, ut in excerpendis minutis ſecundis difficultas calculi levetur. Quæ forma, meo quidem judicio, captui Matheſin incipientium accommodatiſſima eſſe videtur. In qua nondum editus extat, ſicut ex operatione calculi patebit.

Expoſitâ jam ordinatione hujus Canonis, reſtat, ut etiam breviter modum excerpendi numeros ex eo ſubjungam.

Quod compendiosius duci potuit? Atq; inde deduci possunt propositiones antiquae Trigonometricae accommodate prout edoctae sunt à Doctissimo Joanne Baptista Morino.

Itaq;

Itaq; si primùm sit quærendus arcus alicujus, in gradibus & minutis duntaxat, vel Logarithmus, vel Mesologarithmus, vel Antilogarithmus, tunc ille statim in Canone occurrit. Exempli gratia, quærendus sit Log—us 6 grad. 32. min, vel Antilog—us in semicirculo 96 grad. 32 min. offenditur ille in Canone particularum 217348: Mesologar. verò ejusdem + 216696. Antilogar. verò in complemento quadrantis 83 grad. 28 min. complementi Semicirculi 173 grad. 28 min. — 652. Si verò excerpendus sit Logarithmus 4 grad. 11 min. 20. sec. tunc partis proportionalis investigatione opus est. Logarithmus enim respondens 4 grad. 11. min. est 261801. differ. decrescens pro 10 sec. est 67. E. pro 20 duplum emergit 134, quæ particulæ à priore Logarithmo subtractæ suppeditant

261801
134
261667 Log—us 4 gr. 11 min. 20 sec.

Vel sit quærendus Mesologarithmus privativus 86 gr. 11 min. 46// competit arcui 86 gr. 11 min. Mesolog—us 270737, differ. accrescens pro 10 sec. est 73 partic. Ergo 46 dant 336 partic. addendas, quæ vel ex praxi Arithmeticæ vulgaris, vel ex compendio Iulij Cæsaris Paduani, vel (quod præstat) per baculos numerales secundum Rhabdologiam Neperi formatos. non possunt esse obscuræ,

270737
336
271073 — Mesolog—us arcus 86 grad. 11 min. 46 sec.

Aliud Exemplum.

Quod si sit investigandus Logarithmus 7 grad. 14 min. 25 sec. tunc primùm excerpo Logarithmum pro 7 grad. & 14 min. qui est 207218 differ. decrescens est 229 hinc talis surgit proportio: 60 dant. 229, quid dant 25.

Ut autem hic evitem multiplicationem atq; divisionem, accipio saltem de 229 partic. tertiam partem, quæ est 76 part. ea ducta in 25 exhibet in practica Julij Cæsaris Paduani 32 partic. hæ sunt triplicandæ & emergunt 96 Particulæ, quæsita pars proportionalis subtrahenda ab antè dato Logarithmo 207218

96
207122 Log—us, 7 gr. 14 min. 25 sec. vel in bacillis

Neperi quære in fronte numerum 229. Numero autem 25 respondent in proportione denarij 4 partes ex una decima: hinc 4 dant 92 & $\frac{2}{10}$, de 23 dant 4. Sic itidem emergunt 96 particulæ. Hisce ego compendij loco uti soleo, præsertim quando numeri sunt prolixiores. Nec etiã aliâ ratione Mesologarithmorum numeri in grad. min. & secundis inquirendi sunt. Si verò ex Logarithmo dato arcus eruendus sit, modus erit inversus. Exempli gratia, Quæratur arcus Logarithmi 51083 in competentibus grad. min. & secundis. Primùm in Canone Logarithmorum invenio Logar. majorem 51090 cui respondent 36 grad. 52. min. offendo etiam Logarithmum minorem 51051. 36 grad. 53 min. Differentia utriusque Log—mi. in 60 sec. est 39. partic. Differentia verò Logarithmi majoris & dati est 7. Hinc talis emergit proportio : 39 dant 60 // quid 7. R. ex Tabula sexagesimorum Partis I. Ephemerid. Undecim. E. concludo præfatum Logarithmum competere arcui 36 grad. 52 min. 11 //: Si verò hic numerus pro AntiLogarithmo habetur, tunc respondent ei 53 gr. 7 min. 49 //. Eodem modo etiam quærendus est arcus Mesolog—mi positivi + 28768. Invenio Mesologarithmo proximè majori + 28780 competere arcum 36 gr. 52 /. Minori verò + 28719. 36 gr. 53 min. Differ. utriusque est 61 partic. Proinde ita ratiocinor. 61 dant 60 // quid 12. R. 12, ita, ut arcus Mesologarithmo congruens ferè sit 36 gr. 52 min. 12 //. Tandem si ex Logarithmo Sinus quærendus sit, aut ex Sinu Logarithmus, tunc ex data tab. Sinuũ & Logarithmorum desumatur numerus proximè major & minor, & de quolibet different. accipiatur, quæ tractata juxta regulam proportionum exhibebit partem proportionalem vel addendam vel demendam, prout numerus subsequens accreverit aut decreverit, atque sic conformes Sinus ac Logarithmi eliciuntur. Exempla plura in reliquis capitibus sequentur, quæ rem præsentem magis magisque illustrabunt: Unde hîc plura adducere nolo.

CAPUT III.

De usu Logarithmorum generali.

CUm finis juxta Philosophum moveat Efficientem ad agendum, idcircò & hîc meritò finis atq; usus Canonis Logar—orum spectari debet. Ille autem in admirabili quodam Compendio, quod jam

jam ante viginti annos ab illustri NEPERO Barone Merchistonii Scoto fuit traditum, consistit. Ubicunque enim in vulgari Arithmetica inq; regula Trium duo numeri inter se sunt multiplicandi, ibi hîc citra multiplicationem eorum Logarithmi sunt in unam summam conjiciendi: ubi verò numerus primus jubetur productum dividere, ibi Logarithmus illius est auferendus â Log—orum summa, ut Log—us illic aggregatus, hic residuus numerum in qualibet operatione quæsitum ostendat. Etenim cum hactenus ad Triangula, tam plana, quàm Sphærica, solvenda adhibita sit Tabula Sinuum, Prosinuum, vel Tangentium, (quæ & fœcunda dicitur) nec non Hypotenusarum, vel Transsinuosorum sive Secantium, hîc eorundem loco Canon Logarithmorum surrogatur, ut absque multiplicationis, divisionis & Radicum extractionis labore ad solutionem Problematis perveniri queat. Hic breviter est usus Log—orum, cujus demonstrationem habes in *Tractatu NEPERI, de construct. Canonis Lugduni Anno 1620. edita*, & apud KEPPLERUM *in Chiliade Log—orũ A.C. 1624 Marpurgi impressa, proposit. 18. 19. & 20.* Verùm enimvero, ut usus iste nonnihil luculentior & plenior Matheseos studiosis fiat, ostendendum hîc erit, quomodo Sinuum, Tangentium, & Secantium præcisè in Tabb. suis repertorum Logarithmi non minus præcisè in hoc Canone investigari possint. Quippe detur Sinus 66913, huius arcum aliunde in Tab. Sinuum quæro, & invenio respondere arcum 42 grad. qui in nostro Canone præbet Logarithmum 40178. Rursus detur Sinus 77550, huic competit arcus 50 grad. 51. min. & proinde Logar—us ei æquivalens est 25425.

Porrò quæratur Tangentis 58670 Mesolog—us. Huic Tangenti in Tabula congruit arcus 30 gr. 24 min. & in nostro Canone Mesolog—us abundans * 53325. At si Tangentis 203227 Mesolog—um quæsiveris, offendes in Tab. Tangentium eius arcum esse 63 grad. 48 minut. Huic arcui in nostro Canone respondet Mesolog—us, defectivus tamen — 70915. Adhæc Secanti 224116 competit in Tab. Secantium arcus 63 gr. 30 min, cui in nostro Canone respondet Antilog—us — 80699. Sic Secanti 109464 efficienti arcum 24 grad. 0 min. reciprocus est Antilog—us — 9042. Quâ verò ratione proportionalium arcus absque eorum Sinibus, Tangentibus & Secantibus acquirantur, paulò ante diximus: quandoquidem ex quatuor proportionalium Log—is vel Mesolog—is datis tribus invenitur quartum quæsitum; Sicut

enim se habet primum ad secundum, ita tertium ad quartum. Tu igitur Log—os secundi & tertij adde, dehinc ab aggregato aufer Logarithmum primi, & relinquetur Logarithmus quarti quæsiti, & proinde etiam ipsum quartum, ejusq; arcus. VELUTI detur talis proportio, ut Sinus 50 grad. est ad Sinum 80 grad. ita Sinus 30 grad. ad quartum quæsitum. Si operor per Sinus communi viâ, tunc tertius per medium est multiplicandus, & productus per primum dividendus. Talis enim hic est proportio: Ut: 76604 S. 50 gr. ad 98481 S. 80 gr. ita 50000. S. 30 gr. ad quartum quæsitum.

98481
5
4924050000

Ut autem hic evites divisionem pro Sinu 50 gr. accipis ejus complementi (quod est 40 gr.) Secantem, videlicet 130541, eumq; ducis in priorem 492405.

492405	
130541	
49240	5
14772	1
246	2
19	7
	5
64279	0

Ergo emergit quartus numerus quæsitus Sinus 64279 qui dat arcum 40 grad. 0 min.

Nos verò per additionem & subtractionem faciliùs hoc pacto calculum expedire possumus:

1531	Log—us 80 gr.	Add.
69315	Log—us 30 gr.	
70846	Aggregat. Log—orum.	
26651	Log—us 50 gr. Subtr.	

44195 Log—us qui ostendit arcum 40 gr. 0 min. & est quartus numerus quæsitus, cum priore coincidens.

Aliud Exemplum.

Sic ut Tangens seu Prosinus 93252 grad. 43 ad Sinum 57 gr. 0 min. 83867:

83867. Ita Tangens 70021. 35 grad. ad Sinum quartum quæsitum, cujus arcum primùm communi viâ, deinde & per nostrum Canonem investigabimus.

83867		
70021		
58706	9	
16	8	
	8	
58724	5	
107237		Tangens complementi 43. grad. videl. 47 grad.
58724	5	
4110	7	
117	4	
17	6	
4	1	
62973	1	

Hic quartus numerus dat Sinum arcus 39 gr. 1 min. 52 sec. At per Log—os & Mesolog—os promptiùs hunc arcum sequente modo inquirere poteris.

	17594	Log—us 57 gr. 0 min.
+	35638	Mesolog—us 35 grad. Add.
	53232	Aggregatum.
+	6987	Mesologar. 43 gr.
	46245	Logar. arcus 39 gr. 1 min. 52 sec. qualis etiam

in priore exemplo inventus fuit.

Notetur quoq; hic, quod addere signorum dissimilium Log—os & Mesolog—os nihil aliud sit, quàm differentiam eorum cum signo majoris numeri elicere: Subtrahere verò Logarithmos & Mesologar. ejusdem signi sit communi modo minorem â majore subducere. Contrâ, subtrahere Log—os & Mesolog—os diversorum signorum, nihil est aliud, nisi addere unum ad alterum, & aggregato apponere notam majoris numeri, ut ex allatis exemplis liquet.

Christophorus Clavius quidem, *lib. 1. Astrolabii, lemmate 53.* proponit modum solvendi omnes quæstiones, quæ per Sinus, Tangentes

atq; Secantes perfici solent, per solam Prosthaphæresin, hoc est, per solam additionem subtractionemque, sine laboriosa numerorum multiplicatione ac divisione, quo in negocio etiam alii, utpote *Tycho Brahеus, Barthol. Pitiscus, Melch. Jöstelius, Johan. Maginus, Christian. S. Longomontan.* laborârunt, neque eorum industria maximoperè est non commendanda. Verùm periti huius modi gnariq́ue fatebuntur ultrò, illam viam non esse adeò planam, facilem, & expeditam, sicut nostra est. Id quod ex uno atque altero exemplo, quod *Clavius* dicto loco tradit, non obscurum esse poterit. Proponit investigandam declinationem Solis in 17 gr. 45′ ♊ quæ communi via sic solet inquiri: Quæ est ratio Sinus totius ad Sinum maximæ declinationis ☉, talis est Sinus distantiæ dati puncti Eclipticæ â viciniore puncto æquinoctij ad Sinum declinationis eiusdem dati puncti. Quamobrem ad Prosthaphæresin instituendam sic numeri ordinandi erunt:

	G.	M.		G.	M.	
Distant. ☉ ab Æquin.	77	45	Complem. majoris	12	15	Minor numerus major est quâm complementum, ideo fiat additio.
Arcus maximæ declination.	23	32	Minor arcus	23	32	

Summa complementi & minoris	35 47	S. 58472.
Differentia inter complementum majoris & minoris	11 17	S. 19566.
Aggregatum Sinuum.		78038
Semissis vel Sinus Declinationis		39019

Sinui invento respondet arcus declinationis 22 gr. 58 min.

At eadem declinatio per unicam additionem ope Canonis Logarithmorum supputari potest hoc pacto.

91809 Log—us max. declin. ☉
2303 Log—us dist. ☉ ab Æquin.

94112 Log—us quæsitus, cui competit arcus declinationis 22 gr. 58 min.

Aliud Exemplum.

Sit quærenda Differentia Ascensionalis 6 grad ♊ ad altitud. Poli 53 grad. 30 min. quam hac proportione solemus perscrutari: Sicut Sinus totus sese habet ad Tangentem declinationis, quæ hic est 21 gra. 23 min. ita Tangens datæ altitud. Poli ad Sinum differentiæ Ascensionalis. Verùm calculus ita facilè expeditur.

✠ 93762 Mesolog—us 21 gr. 23 / decl. 6 gr. ♊.
— 30116 Mesolog—us 53 gr. 30 / Elev. Poli.

63646 Logar. Differ. Ascension. 6 gr. ♊ videlicet 31 gr. 57 min. ferè.

Aliud.

Quæ est ratio quadrantis 90 gr. ad complementum max. declin. ☉ 66 gr. 28 min. 30 sec. Sin. R. ea est arcus in Ecliptica dati 5 gr. ♉ seu 35 gr. distant. â proximo puncto ♈ numeratæ Tangens, ad Tangentem Ascens. R. ab eodem Æquinoctio numeratæ.

8677 Log—us 66 gr. 28 min. 30 sec.
✠ 35638 Mesolog—us 35 gr. 0 min.

✠ 44315 Mesolog—us 32 gr. 42 min. ferè. qui est Ascensio R. 5 gr. ♉

Plura exempla hîc apponere non libet, quia in solutione Triangulorum illa subsequentur.

Accedit & hisce amplior Logarithmorum usus, quando scil. extremorum proportionalium Log-is dato Log-o medio, & altero extremo, reliquus extremus, ejusve proportionalis vel arcus per unicam duplicationem & subtractionem inquiri potest. Dentur enim primum & secundum proportionale, quæraturque tertium; id quod idem est, ac numeri alicujus quadratum invenire; Communiter enim hoc exquiritur, medium quadratè multiplicando, seu in se ducendo; & hoc quadratum per primum dividendo. At facilius per Canonem Log—orum idem investigari potest: Nam sit primum proportionale 100000, secundum 70711

Sinus

Sinus R. Hic sinus R. est Snius arcus 45 gr. 0 min. cujus Logarithmus est 34657, qui duplicandus.

34657
34657
69314 Duplum.

Quia vero totus Sinus neq; multiplicat, neq; dividit, hinc Log—us quæsitus dat arcum 30 grad., cujus Sinus in Tab. Sinuum exhibetur 50000, qui numerus est quadratus propemodùm & proportionale quæsitum. Hinc 100000. 70711. & 50000 sunt tria proportionalia. Porrò datis Log—is extremis, medium ejusq; proportionale & arcus per unam additionem bipartitionemq; dantur: quod idem est, ac propositi numeri radicem invenire. Dentur enim extrema modò cognita 100000 & 50000, exploretur medium. Id communiter fit multiplicando data illa invicem, & producti radicem quadratam extrahendo. Sed faciliùs iste numerus innotescit, si datos extremorum Log—os videl. 90 & 30 gr. addimus, & aggregatum bisecamus.

Logar. 30 gr. est 69315, qui bisectus dat 34657. fietq; medij Log—us, cui respondet arcus 45 grad. & Sinus R. 70711. id quod est medium, quodq; in extractione Radicis quadratæ observandum erit. Cæterùm cū etiam in horum numerorum Log—is triplum cujusq; medij æquetur aggregato extremi remoti, & dupli vicini, per *proposit. 6. cap. 6. Canonis Log—orum NEPERI.* Ideoq; si duplum Log—i extremi alterutri Log—o extremi reliqui adjeceris, & productum tripartitus fueris, relinquetur Log—us medij priori extremo proximi, & eodem modo alterum medium pro difficili Cubicæ Radicis extractione. Sint Exempli gratia extrema 40292. Sinus R., cui respondet arcus 23 gr. 45 min. 39 sec. Ultimum verò 105626, cui competit arcus 18 gr. 47 min. Investiganda jam sint media, quæ absq; extractione Radicis cubicæ sic inquires. Dati Sinus & arcus Logarithmus est 90901, & Secantis arcus Antilog—us 5473.

90901
90901
181802 Logar. duplicatus.
— 5473 Antilogus, qui est subtrah. propter signum defectivum.
176329

Hunc

Hunc numerum tripartiaris.

2221
176328 [58776.
3333

Hic Log-- us 58776 dat arcum 33 gr. 45 min. & Sinum 55557, qui est prius medium quæsitum. Quod si jam posterius medium etiam investigare velis, simili modo procede.

— 5473
— 5473
— 10946 Duplum
90901 Log---us prior
— 10946
79955 Productum, quod per tria dividendum.

79955 (26651. Log---i huius arcus est 50 gr.
33333 0 min. & Sinus
eius 76604, quod est posterius medium quæsitum, ita, ut quatuor proportionalia continua sint 40292. & 55557 & 76604, ut & 105626, quorum extremorum radices cubicæ medio loco positæ sunt.

Ex hoc igitur capite patere arbitror, quod per Log---orum additionem multiplicatio, per subtractionem divisio, per bipartitionem extractio quadrata, per tripartitionem cubica, omnesq; graviores calculi operationes declinari possint, id quod adhuc ulterius ex solutione Triangulorum, de qua in *seqq. Capitibus* jam dicturus sum, manifestum evadet.

CAPUT IV.

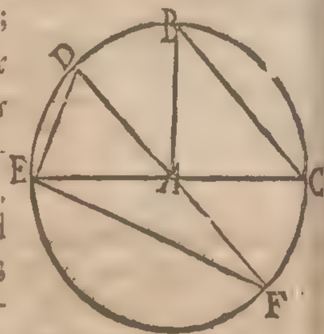
De Praxi Solutionis Triangulorum Rectilineorum, seu Planorum Rectangulorum, per Canonem Logarithmorum.

1. OMnis Geometricæ quæstionis solutio Logistica ex doctrina Triangulorum fluit: Siquidem dimensio (quam Geometria docet,) est magnitudinum propositarum: Magnitudines autem poten-

tiâ figuram efficiunt, ideoque cum omnis figura sit vel Triangulum, vel Triangulatum, h.e. compositum ex Triangulis, certum est, quod ille, qui possit Triangula eorumq; partes mensurare, artem bene metiendi calleat.

2. *Triangulum* autem est vel *Rectilineum*, vel *Sphæricum*. Rectilineum, εὐθύγραμμα Τρίγωνον *est figura plana tribus rectis lineis constans, quæ finibus suis sese mutuo contingunt*, ut ex Trigonometriæ doctrina addiscitur.

3. In dimensione autem Triangulorum Rectilineorum, datis duobus angulis tertius ilicò quoque notus erit, cum sit complementum duorum rectorum: Nam Trianguli Rectilinei tres anguli æquantur semper duobus rectis per *proposit 32 lib. 1 Euclidis*. Itaq; *detractis duobus angulis rectis junctis ex semicirculo, qui est graduum 180. reliquus angulus tertius erit notus*, veluti in proposito Schemate consideretur Triangulum A.D.E. & detur angulus ad A partium 60. Angulus ad E sit Rectus, h.e. 90. grad. Aggregatum utriusq; anguli est 150 grad. quod ab 180 grad. subtractum relinquit tertiũ angulum ad D. grad. 30.

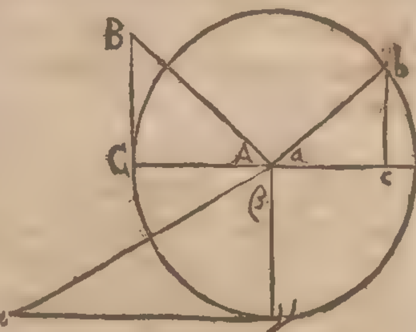


4. Rursus *dato uno acuto angulo, notus quoque erit reliquus acutus, eò quod sit complementum unius Recti*: Hinc quia in præfato Triangulo A D E, angulus ad A est acutus, nempe 60 grad. E. Angulus ad D. est 30 partium.

5. In *Isoscelibus* verò sufficit, ut notum habeamus *vel angulum verticalem*, vel *unum ex æqualibus ad Basin, dum tantùm sit nota Anguli species*. E.g. Sit cognitus angulus A in superiori Triangulo A E quod fingamus esse Isoscelem 34 grad. 50 min. dico quemlibet angulum ad Basin esse 72 grad. 35 min. nempe D & E: Demto enim angulo A. 34 grad. 50 min. â summa duorum Rectorum h. e. 180 grad. remanet quantitas utriusq; anguli D. & E. simul grad. 145 min. 10. ex qua bisecta debentur cuiq; angulo ad Basin D. & E. grad. 72. min. 35. Similiter *si fuerit datus unus ex æqualibus angulis D. vel E* 72 grad: 35 min. *duplicato hoc numero fiet quantitas utriusq; anguli simul* 145 gr. 30 min. *quæ quantitas subtracta à gradibus 180. relinquit angulum* A 34 gr. 50 min.

6. In

6. In *Scalenis* seu *variis* oportet saltem habere *duos angulos notos.* Nam reliquus emerget, cum sit illorum residuum ad duos Rectos.
7. Porro *Rectilineum Triangulum* aut est *Rectangulum* aut *Obliquangulum.*
8. In Rectangulis crura dicimus; quæ Rectum angulum ambiunt, & hypothenusam, quæ subtendit.
9. In Rectangulo Logar—us cruris æquatur aggregato ex Log—o anguli quem subtendit, & Log—o Hypotenusæ, per *proposit. 5. cap. 2 lib. 1. Canonis NEPERI & Corollar. 6. definit. cap. 1. lib. 1.*
10. Unde Hypothenusæ Cruris & Anguli quem subtendit, duobus quibuscunq; datis tertium atq; inde reliquæ omnes Rectanguli partes innotescunt per *3 Problem cap. 5 lib. 1. Canonis Neperi*: Veluti in Figuræ hîc depictæ Triãgulo $\alpha\beta\gamma$ detur hypothenusa seu Latus $\alpha\gamma$ 622 pedum, & crus $\alpha\beta$ 507 pedum: Quærantur anguli obliqui ad β & γ Lateris prolongati, quasi esset Sinus 62200. Particulas accipe. Huius arcus est 38 gr. 27 mi. 44 sec. Logarithmus est 47482. Deinde cruris $\alpha\beta$. etiam in duabus Cyphris fiat prolongatio, ita ut assumantur particulæ 50700, quæ in Tab. Sinuum exhibent 30 grad. 27/min. 50 sec. & Logar—um 67925. Logarithmus igitur $\alpha\gamma$ subtractus â Log—o $\alpha\beta$ relinquit Logarithmũ anguli ad γ



67925. Log—us Lateris $\alpha\beta$ 507 ped.
47482 Log—us Lateris ad $\alpha\gamma$. 622 ped.
20443 Log—us Anguli ad γ.

cui respondet arcus 54 gr. 35 min. 54 sec. & eius complementum quod est 35 gr. 24 min. 6 sec. erit Angulus ad β.
11. E contrario si detur angulus ad γ cum crure Recti anguli $\alpha\gamma$ & quæratur hypothenusa $\alpha\beta$, ita instituatur operatio. Logarithmo $\alpha\gamma$ adde Logarithmum anguli γ & relinquetur Logarithmus Lateris hypothenusæ:

47482 Logar—us lateris $\alpha\gamma$.
20443 Logar—us anguli γ.
67925 Log—us lateris $\alpha\beta$ seu hypothenusæ.

F. Hypothenusa quæsita est ut suprà 507. rejectis duob. ultimis numeris.
12. *Tertio.* Si datis $\alpha\beta$ & angulo ad γ quæratur latus $\alpha\gamma$, deinde Log—um anguli ad γ Logarithmo lateris $\alpha\beta$ & remanet Logarithmus lateris $\alpha\gamma$.

67925. Log---us $\alpha\beta$. Lateris.
20443 Log---us anguli ad γ.

47482 Log---us lateris $\alpha\gamma$. qui dat in Sinuum Tab. 622 pedes, rejectis itidem extremis duobus numeris. Non secus ipsum crus reliquum ex angulo β, qui est complementum anguli γ jam cognitum habetur, atque ita omnes huius Rectanguli partes sunt detectæ.

13. Deinde, cum ex communi Triangulorum doctrina constet, quod alterutrum crus se habeat ad Tangentem sibi oppositi anguli ut reliquum Crus ad sinum totum; & cùm per *proposit. 5 cap. 2 lib. 1. Canon. Log--orum NEPERI* ex his 4 proportionalibus Logarithmi med orum, h. e. Mesologarithmus anguli & Log---us Cruris eum ambientis æquentur Logarithmis Cruris eundem subtendentis & Sinus totius qui in Canone Log---orum in o desinit, idcircò Log---us cujusvis Cruris æquatur aggregato ex Mesolog---o oppositi anguli & Log---o reliqui cruris.

14. Hinc ex cruribus recti & angulo alteri horum opposito, duobus quibuscunque datis, tertium innotescit, ut & per præcedentem operationem cæteræ omnes Rectanguli partes, veluti in præcedente Triangulo $\alpha\beta\gamma$ in α Rectangulo dato crure $\alpha\beta$ 507 ped. & angulo ad β, 35 grad. 24 min. 6 sec. si addatur Mesologar----us anguli ad β Logarithmo $\alpha\beta$, emergit Log---us lateris $\beta\gamma$

67925 Log---us $\alpha\beta$ 30 gr 27/50//
+ 34150 Mesolog--- us anguli ad β, 35 gr. 24/6//

102075 Logar. 21 gr. 7 min. ferè, qui dat, duobus ultimis sinus numeris abjectis, latus $\beta\gamma$. 360. ped.

15. Adhæc datis cruribus $\beta\gamma$ 360 pedum & $\alpha\beta$ 507 ped. quæratur angulus β. Ex Log--o igitur $\beta\gamma$ aufer Logar. $\alpha\beta$, & proveniet Mesolog---us anguli β.
102075. Logar. $\beta\gamma$. 21 gr. 7 min.
67925. Logar. $\alpha\beta$ 30 gr. 27 min. 50 sec.

+ 34150 Mesolog. Anguli ad β 35 gr. 24 min. 6 sec.

16. Verùm, si dentur Crus $\alpha\gamma$ 622 ped. & angulus β 35 gr. 24 min. 6 sec. habebitur crus $\alpha\beta$ addendo Log---um Lateris $\alpha\beta$ Antilog. anguli ad β 35 gr. 24 min. 6 sec. & relinquetur Log---us $\alpha\beta$.

47486 Log---us lateris αγ 38 gr. 27/44//
20439 Antilog---us anguli β. 35 gr. 24 min. 6 sec.

67925 Log---us numeri 507 qui crus est αβ quæsitum.

17. Tertiò, dato crure βγ. & angulo ad γ habetur & crus αβ: Nam subduc Mesolog---um anguli γ â cruris βγ Log---o, tunc enim prodibit Log---us αβ.

102075 Log---us βγ 21 gr. 7 / Cr. 360.
* 34150 Mesolog---us anguli ad β

67925 Log---us αβ seu numeri 507 ut prius.

18. Insuper dato crure αβ & angulo ad β, subtrahe AntiLogarithmum anguli ad β à Log---o Cruris αβ, & remanet Log--- us lateris αγ.

67925 Log---us αβ 30 gr. 27 / 50// pedum 507.
20439 Antilog---us anguli ad β 35 gr. 24 / 6//

47486 Logar. Lateris αγ, cuius numerus est 622 ped.

19. Idem Logarithmus etiam prodit, si Antilog---um ad γ 54 gr. 35/54 sec. subtraxeris à Logar. βγ.

102075 Log---us β.γ. num 360.
54593 Antilog---us anguli ad γ 54 gr. 35/54//.

47482 Log---us αγ, cuius numerus est 622 ped. ut in priore exemplo.

20. Idem Logar---us hac quoq; proportione elicitur: Sicut sese habet Antilog---us Anguli ad γ. 54 gr. 35/54// ad Mesolog---um anguli ad β, ita quoq; sese habet Log---us Cruris αβ ad Log---um Cruris αγ.

67925. Log. αβ. 30 gr. 27/50// ped. 507.
34150. Mesolog. anguli ad β 35 gr. 24/6//

102075
54593 Antilog---us anguli ad γ. 54 gr. 35/54//

47482 Log. αγ. cuius numerus est 622 ped. ut in præcedentib.

21. Ut autem Trigonometriæ Studiosus hanc Rectangulorum rectilineorum scientiam in uno atque altero Exemplo habeat dilucidam, adducam adhuc aliud Paradigma in priore Schemate Trianguli Rectanguli a b c, ubi cognita sunt duo latera a b 25 ped. & b c 20 ped: Angulus verò ad c sit Rectus. Itaque pedibus 25 appone tres Cyphras, ut evadat numerus 25000 & excerpe ex Tab Sinuum aliunde petita vel ex Pitisco, vel Magino, vel Metio, vel aliis, huic Sinui competentem arcum, qui est 14 gr. 28 min.

min.39.sec.Inverſio iſti arcui reſpōdet in noſtro Canone Log—us 138630. Deinde pedibus 20 itidem tres nullitates adjice ut exiſtat 20000, qui dat arcum 11 gr.32 mi.13 ſec. Log—um verò in noſtro Canone 160943. Quando jam ſubtrahitur Log—us 25 ped. vel Sinus 25000 à Log—o 20 ped, ſeu Log—o Sinus 20000, relinquitur tunc Log—us anguli a,

160943 Log—us 20 ped. b c. 11 gr.32/13//
138630 Log—us 25 ped. a b ſeu 14 gr.28/39//
22313 Log—us anguli a 53 gr. 8/,

22. Ex hoc uno acutorum angulorum pateſcit etiam alter ad b qui eſt complementum illius ad rectum 90 gr. Angulus rectus
53. gr.8/ Angulus ad a
39 gr.52/

E. ex angulo a, cuius arcus eſt 53 gr 8. / collegio reliquum angulum acutum ad b, eſſe 36 gr.52 min.

Datis igitur Trianguli plani Orthogonii duobus Lateribus, quorum alterum circa rectum, alterum recto eſt oppoſitum, datur etiam ſecundum præcedentem operationem uterq; acutorum.

23. Porrò dato latere angulo recto oppoſito cum uno angulo, inquiri etiam poteſt latus dicto angulo oppoſitum: Conjiciantur enim in unam Summam Logar—us anguli & Log—us lateris, prodibitq; Log—us lateris angulo oppoſiti:

138630 Log. 25 ped. ſeu 14 gr.28/39//
51083 Log. anguli b. 36 gr. 52/.
189713 Log. lateris a c, cuius numerus eſt 15 ped.

24. Ad hæc dato latere angulo recto adjacente, & uno angulo, innoteſcit etiam latus angulo oppoſitum, ſi Meſolog—us anguli addatur ad Log—um lateris, ita enim relinquitur Log—us lateris quæſiti:

160943 Log—us b c. 20 ped. 11 g.32/13//
+ 28770 Meſolog—us anguli b. 36 gr.52/
189713 Log—us lateris a c, cuius numerus eſt 15 ped.

25. Rurſus idem latus etiam pateſcit, ſi Antilog—us anguli b. Meſolog—us eiuſdem anguli, ut & Log—us lateris a b. recto oppoſiti aggregentur & invicem hoc pacto addantur;

138630 Log—us lateris a b.
28770 Mesolog—us anguli b. 36 gr. 52/.
22313 Antilog—us anguli b. 36 gr. 52/.

189713 Log—us lateris a c, cui respondent 15 ped. in Sinibus Initialibus.

26. Dehinc dato uno angulo cum latere opposito, datur etiam latus recto oppositum angulo, si scilicet Log—us anguli subtrahatur à Log--o lateris oppositi, quod enim provenit est Log--us lateris quæsiti recto oppositi: 160943 Log--us b.c. 20 ped. s. 11 gr. 32/13//
22313 Log--us anguli a 53 gr. 8/.

138630 Log--us ab 25 ped. seu 14 gr. 28/39//

27. In super dato eodem angulo cum latere adjacente, acquiritur etiam latus angulo oppositum, si Log--us anguli dati addatur Log--o lateris adjacentis: tunc enim resultat Log--us lateris angulo oppositi:
138630 Log--us 25 ped. Lat. a b.
22313 Log--us Anguli c.

160943 Log--us Lateris b c. angulo a oppositi, cuius numerus est 20 ped in duobus primis initialibus Sinus.

28. Deniq; data Basi cum uno latere explorare possumus angulum illi lateri oppositum, si scilicet Log--us lateris angulo quæsito oppositi auferatur à Logar--o lateris alterius vel Basis: Sic enim relinquitur Mesolog—us anguli quæsiti.
189713 Log--us 15 ped seu 8 gr. 37/37//
160943 Log--us 20 ped. Lat. bc. angulo a oppositi.

28770 Mesolog—us anguli a, qui dat 36 gr. 52/

Atq; sic calculus Triangulorum Rectangulorum planorum compendiose expediri potest.

Caput V.

De Praxi solutionis Triangulorum Rectilineorum non Rectangulorum, seu Triangulorum planorum Obliquangulorum.

1. IN Triangulis Obliquangulis crura dicimus, quæ angulum quemvis ambiunt: Basin, quæ subtendit angulum.

2. Quan-

2. Quando igitur ex duobus angulis certæ alicuius speciei, sive angulus acutus sive obtusus fuerit, & suis subtendentibus tria cognita fuerint, quartum etiam quodcunque, atque hinc reliquæ omnes Trianguli partes innotescent, nec est difficilis per Canonem Log—orum operatio: Cùm enim aggregatum ex Logarithmis anguli cujusvis & lateris adjacentis æquetur aggregato ex Log—is lateris & anguli eis oppositorum, cùmque omnium laterum ad oppositorum angulorum Sinus eadem sit ratio, idcircò, *quando adduntur Log—i lateris dati & anguli quæsito lateri oppositi, nec non à summa aufertur Log—us anguli dato lateri oppositi, relinquitur Log—us lateris quæsiti.*

Proponatur Exemplum in Triangulo obliquangulo A B C, ubi detur latus A B, 26302 partic. cui Sinui respondet arcus 15 gr. 15 min. & Log—us 133548. Latus B.C. partic. 57955. cui Sinui respondet arcus 35 gr. 25 min. 13 sec. & Log—us 54547. Denique angulus ad C. sit 26 gr. cuius Log—us est 82469. E, hic emergit talis proportio, qualis est ratio lateris A. B. ad angulum C. talis est lateris B.C. ad quæsitum angulum A.



82469 Log—us Anguli C 26 grad.
54547 Log—us Lateris B C.

137016 Aggregatum.
133548 Log—us Lateris A.B.

3468 Log—us Anguli A 75 grad. ferè, si videlicet angulus A est acutus, si verò est obtusus, accipiatur complementum ad Semicirculum pro angulo A.

180 Semicirculus
75 Log—us anguli A acuti.

105 gr. Anguli A. obtusi.

3. Porrò si detur angulus A 75 grad. atque angulus C 26 grad nec non latus B.C. partic. 57955, quæraturq; latus A, B. tunc ita ratiocinandum erit. Qualis est proportio anguli A ad latus B, C. talis est anguli C. ad latus A, B.

3468. Log. anguli A. 54547 Log. Lat. B, C. 82469. Log. Ang. C.

54547

54547 Log—us Lateris B,C.
82469 Log—us Anguli C.

137016 Aggregatum.
3468 Log—us anguli A.

133548 Log—us Lateris A. B. cuius arcus est 15 gr. 15 min.

4. Habitis jam angulis A, 75 grad. & C 26 grad. datur quoque tertius angulus, ut complementum illorum ad semicirculum, videlicet angulus B. 79 grad.

75 grad. Angulus A.
26 grad. Angulus C.

101 Aggregatum duorum angulorum, quod subtractum à Semicirculo, relinquit angulum B.

180 grad. Semicirculus.
101 Aggregat. angul. A & C.

79 grad. Angulus B.

5. Ex hoc jam habito acquiratur etiam latus ei oppositum: Sicut enim sese habet

Anguli A Log—us ad Latus B. C. ita Anguli B. Log—us ad latus A. C.

3468 — 54547 1854

54547 Log--us Lateris B. C.
1854 Log--us Anguli B.

56401 Aggregatum.
3468 Log--us Anguli A.

52933 Log--us Lateris A. C. qui dat arcum 36 grad. 5 min. & Sinum partic 58896.

Idem latus a. c etiam hac proportione obtinetur:
ut sese habet

Angulus C ad latus B A. ita Angulus B ad latus A. C.

82469 — 133548 — 1854.

133548 Log--us Lateris B A.
1854 Log--us Anguli B.

135402 Aggregatum.
82469 Log--us Anguli C.

52933 Log--us Lateris A, C. arcus 36 gr. 5 min.

Atq; tali calculo indagantur omnes huius Trianguli obliquanguli partes.

6. *Deinde ex duobus cruribus & angulo comprehenso innotescunt etiam anguli reliqui oppositi, nec non reliquum Latus.* Sicut enim sese habet aggregatum Crurum ad differentiam crurum, ita Tangens Semiaggregati suorum oppositorum angulorum sese habet ad Tangentem Semidifferentiæ eorundem, operatio igitur absolvitur, quando Log–us aggregati Crurum subducitur ab aggregato facto ex Logarithmo differentiæ crurum & Mesolog–o Semiaggregati suorum oppositorum angulorum: Sic enim proveniet Mesolog–us Semidifferentiæ eorundem angulorum. Hinc Semidifferentia addita semiaggregato oppositorum angulorum, procreat angulum majorem: Subducta verò ab eodem semiaggregato oppositorum angulorum exhibet angulum minorem, E. g. in superiori obliquangulo data sunt crura A B. 26302 partic. & B C. 57955, angulusque comprehensus ad B. 79 grad. quærantur autem reliqui anguli ad A & C, ubi sic procedis:

57955 Crus B C.
26302 Crus A B.

48257 Aggregatum cui arcus respondet 57 grad. 24/45// & Logar–us 247388.

57955 Crus B C.
26302 Crus A B.

31653 Differentia eorundem crurum, cui arcus ex positione responderi gr. 48 min. 50 sec. & Log–us 345292.

Cumq; angulus B sit datus 79 grad. erit aggregatum reliquorum angulorum A & C.

180 grad Semicircul.
79 grad Angulus ad B.

101 Aggregati Anguli A & C & proinde Semiaggregatum angulorum 50 gr. 30 min. cuius Mesolog–us est 19818– Hinc formetur talis proportio:

Ut sese habet

Log–us aggregati Crurum,	ad Mesolog–um Semiaggr. opposit. angulor.	ita Log. diff. crurum	ad Mesolog–um Semidiff. angul. oppositorum.
247388	19318	345292	
			345292

345292 Log–us Differ. Crurum
19318–Meſolo--gus Semiaggreg. oppoſit. angulorum

325974 Aggregatum,
247388 Log–us aggregat. Crurum.

78586 + Hinc provenit Meſolog–us Semidiffer. angulor. oppoſitorum 24 gr. 30 min. Hanc igitur inventam Semidifferentiam adde ad Semiaggregatum Angulor. 50 gr. 30 min. & emergit Angulus major A.

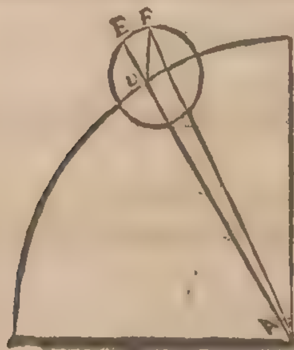
50 gr. 30 min. Semiaggreg. oppoſit. angulorum
24 gr. 30 min. Semidiffer. angulor. oppoſitorum.

75 0 Et hic eſt angulus major ad A. Eandem Semidifferentiam etiam ſubtrahe à Semiaggregato oppoſit. angul. & relinquitur angulus minor.

Gr.	Min.	
50	30	Semiaggreg. oppoſit. angulor.
24	30	Semiaggreg. Differ. crurum
26	0	Relinquitur angulus B minor.

Notes autem hîc, quod in differentia utriuſque cruris ultimum numerum abjicias, ut commoda ab aggregato poſſit fieri ſubtractio.

7. Hæc operatio quoque in motibus Planetarum ſupputandis (in quibus Eccentricitates orbium, elongationes apogæorum & Epicyclorum incommutabiles menſurari ſolent) locum invenit, & ſingulare mirificumque præſtat compendium: Nam eorum Logarithmi ſemel præciſè conſignati ſemper poſtea ſine ulla immutatione ad Calculum inſerviunt, id quod in Tabula Æquationum Solis perpetua, quæ *in Aſtronomica Danica Severini pag. 102.* & ſeq. extat, paucis hîc oſtendam, ut videant Aſtrophili, ex quibus fundamentis Tabula Æquationum Solis extructa ſit. Conſiderēt igitur ſubjectum Schema, in quo invenitur Triangulum F.D.A: Ubi cognita ſint duo crura F.D. & D.A. unà cum angulo ab iiſdem cruribus comprehenſo, nempe F.D.A: Crus A.D. exæquet radium 100000. Latus D.F. ſit partic. 3571. Ergo aggregatum crurum eſt 103571.



100000 Crus A.D.
3571 Crus D.F.

103571 Aggregatum Crurum, quod habendum loco Secantis, eiusq; arcus ex Tab. Secantium est excerpendus, nempe 15 gr. 5 min. 23 sec. & Antilog--us eius 3509.

100000 Crus A.D.
3571 Crus D.F.

96429 Differ. eorundem crurum, cui in Tab. Sinuum arcus competit 74 grad. 38/ 30// & Log--us 3636. Cumque angulus inclusus F.D.A. obtusus sit 150 gr. erit aggregatum reliquorum angulorum F. & A. 30 gr.

180 Semicirculus
150 Angulus F.

30 Aggregatum angulorum F & A. & proinde Semiaggregatum 15 grad. 0 min. cuius Mesolog--us est 131696 ✠ Sic ergò formanda est proportio:

Antilog--us 15 gr. 5/23// dat Mesolog--um 15 gr. quid Log--us Differ. Crurum
3509 — ✠ 131696 3636

131696 ✠ Mesolog--us 15 gr. seu Semiaggreg. angul.
3636 Log--us Differ. Crurum

135332 ✠ Aggregatum
3509 Antilog--us aggregat Crurum

138841 ✠ Mesolog--us semidifferentiæ angulorum oppositorum 14 gr. 0 min. 28 sec.

Hæc igitur inventa Semidifferentia subtracta à Semiaggregato oppositorum angulorum relinquit Prosthaphæresin ☉ quæsitam in 30 grad.

Grad.	Min.	Sec.	
15.			
14	0.	28	
0.	59	32	Æquatio ☉ in 30 grad. &

330 grad. Anomaliæ.

2. Cæterum fingamus angulum inclusum ad D esse 120 grad. E. aggregatum oppositorum angulorum erit 60 grad & Semiaggregatum 30 grad. cuius Tangens est 54931 ✠.

Extremi Logarithmi aggregati & Differentiæ Crurum invariabiles, ut antè, permanent, estq; hæc proportio.

Anti-

Antilog—us 15 gr. 5/23// dat Mesolog—um 30 gr. quid Log—us Differ.
3509 — 54931 + 3636 (Crurum

54931 + Mesolog—us Semiaggreg. oppositorum angul.
3636 Log—us Differ. Crurum.
58567 + Aggregatum.
3509 Antilog—us opposit. Crurum
62076 + Mesolog—us Semidifferentiæ angulorum, qui est 28 gr. 15 min. 34 sec. Hæc igitur Semidiffer. subtracta à priore.

G.	Min.	Sec.
30.		
28	15	34
1	44	26

relinquit prosthaphæresin 60 grad. & 300 grad. respectu integri circuli.

9. Quia verò hi extremi numeri, primus scilicet Antilog—us, & tertius Log—us immutabiles permanent, idcircò ad evitandam duplicem additionem extremi numeri in unam summam possunt conjici, & aggregatum postea Mesolog—o semper pro monitu abundantis vel deficientis signi addendum, vel ab eo subtrahendum erit. E.g.

3636 Logar—us Differ. Crurum.
3509 Antilog—us aggregati Crurum
7145 Aggregatum Log—i ac Antilog—i.

Hoc aggregatum 7145 utrobiq; ad Mesolog—um additum procreat priorem Mesolog—um quæsitum: velut *in priori Exemplo*

131696 + Mesolog—us Semiaggregati opposit. angulor. 15 gr.
7145 Aggregatum Log—i & Antilog—i.
138841 + Mesolog—us Semidifferent. angulor. opposit. 14 gr. 0 min. 28 sec.

In posteriore Exemplo.

54391 + Mesolog—us Semiaggreg. oppos. angulorum, 30 gr.
7145 Aggregatum Log—i & Antilog—i.
62076 + Mesolog—us Semidiffer. angulor. oppositorum 28 gr. 15 min. 34. sec.

Hoc modo & reliquæ Æquationum Planetarum Tabulæ constructæ sunt, qua de re convenientiore loco agendum erit.

10. Quomodo etiam ex obliquangulo duorum laterum fiant duo

Rectangula notarum hypothenusarum cum altero majoriq; crure, quæ reliquas quoque omnes obliquanguli partes ostendant, id NEPERVS *lib. 2. Canon. Logar. c. 2. prop 6. & addito Corollario*, aliiq; docent. Ego hanc resolutionem consultò prætereo, cum ex traditis solutio omnium Triangulorum planorum, rectangulorum & non rectangulorum, atque exinde etiam duorum Triangulorum planorum ὀρθογώνων solutio pateat. In his igitur paucis omnium Triangulorum Rectilineorum dimensio consistit.

CAPUT VI.

De Solutione Triangulorum Rectangulorum Sphæricorum per Canonem Log---orum in Arcubus angulorum & laterum.

TRiangulum Sphæricum aut est *quadrantale*, aut *non quadrantale*. *Quadrantale* est, cuius aut latus aut angulus æquatur quadranti, reliqui verò anguli vel latera sunt, singula quadrante minora. In Triangulo autem Sphærico quadrantali dantur casus *sedecim, in quibus inter tria* data semper ipse rectus angulus subintelligitur. *Basis* autem Vox hîc accipitur pro latere maximo, quod angulo Recto opponitur. In evolvendis autem & enodandis hisce casibus, ordine utar arbitrario, qualem & *Maginus in tabulis primi mobilis*: *& KEPPLERUS cap 7. complementi Chiliad.* adhibuerunt.

I. Primùm igitur *detur Basis cum uno angulo & inquiratur Latus dicto angulo oppositum.*

Per Log–os hîc facilis est operatio: nam saltem Log–os datorum conjice in unam summam, & prodibit Log–us quæsiti Lateris angulo oppositi. Exemplum esto in Triangulo proposito A B C, angulum ad B rectum habente, ubi data sit Basis A C, 64 grad. 30 min. cum angulo C, 32 grad. 20 min., & quæratur latus AB, dicto angulo oppositum.

10249 Log--us Basis AC, 64 gr. 30. min.
62578 Log--us Angul. C. 32 gr. 20 min.

72827 Log--us Lit. AB. angulo C opposi-ti, qui dat 28 grad. 52 min. ferè.



Aliud Exemplum.

Fingamus Basin esse 72 grad. & Angulum 50 grad.

5018 Log--us Basis 72 grad.
26651 Log--us Anguli 50 grad.

31669 E Log--us lat. angulo oppositi datur 46 grad. 46 min. ferè.

2. Secundò, *datis duobus lateribus circa rectum Ang basin invenies,* si Log--os complementorum datorum Laterum invicem addideris: sic enim proveniet aggregatum, quod est Log--us complementi quæsitæ Basis. Veluti in priore Triangulo data sunt duo latera circa rectum, nimirum AB, 36 gr. 30 min, & B, C, grad, 52, Ex hisce inventis quæratur Basis.

21833 Log--us complementi 36 grad. 30 min.
48506 Log--us complementi lateris 52 gr. 0 min.

70339 Log--us complementi Basis 29 gr. 40 min. Ergò datur ipsa Basis 60 gr. 20 min.

Aliud Exemplum.

Statuamus Latus oppositum 46 gr. 46 min. & Latus maius 63 gr. 12 min, atq; ex iis eliciatur Basis-

37838 Log--us complementi Lateris 46 gr. 46 min.
79656 Log--us complementi Lateris majoris 63 gr. 12/

117494 Log--us com menti Basis 18 gr. ferè, qui dat ipsam Basin 72 grad.

3. Tertiò, *dato latere cum angulo adjacente, datur etiam angulus ei lateri oppositus:* Nam adde Log--um anguli ad Log--um complementi Lateris & sic habebis Log--um complementi quæsiti Anguli. Vel-

uti de

uti detur in nostro Triangulo Angulus C 42 grad. cum latere B C adjacente 56 grad.30 min. & quæratur angulus A dicto lateri oppositus:

40177 Log--us Anguli C. 42 gr.
59432 Log--us Complem.Lat.BC,56 gr.30 min.

99609 Log--us Complem. Anguli quæsiti ad A 21 gr. 40 min.& proinde ipse angulus datur 68 gr. 20 min.

Aliud Exemplum.

Assumamus angulum 50 grad. & latus adjacens 63 gr.12 min.

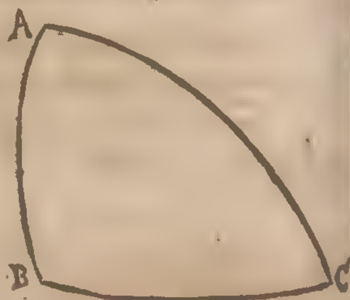
26651 Log--us anguli 50 gr. 0 min.
79656 Log--us Complem. Lat. adjacentis 26 gr. 48

106307 Log--us Complem. Anguli quæsiti 20 gr. 12 min. ferè, & ideò ipse Angulus quæsitus 69 gr. 48 min.

4. Quarto *data Base cum uno latere, datur quoq; angulus illi lateri oppositus*, si scilicet Logarithmus Basis â Log- o lateris subducatur: sic enim remanebit Log--us Anguli oppositi: Veluti in oblato Triangulo A B C, est Basis data A C. 60 gr.20 min & Latus A B. 36 gr.30 min.

51949 Log--us Lat.A B. 36 gr. 30/
14050 Log--us Basis 60 gr 20/

37899 Log---us anguli illi lateri oppositi, 43 grad.12 min.



Aliud Exemplum.

Ponamus etiam Basin esse 72 grad. 0 min. necnon latus angulo oppositum 46 g.46 min.

31669 Log--us lat. ang.oppositi 46 gr.46 min.
5018 Log--us Basis 72 gr. 0 min.

26651 Log--us Anguli Lateri oppositi 50 gr. 0 min.

5. Quintò *dato latere cum angulo illi opposito, datur etiam Basis*, si scilicet Log--us anguli oppositi subtrahatur â Log--o lateris: sic enim remanebit Logarithmus Basis. Veluti in priore nostro Exemplo datur Latus A B 36 gr. 30 / cum angulo C. opposito 43 gr.13 / E. instituatur talis operatio.

51949

51949 Log—us Lateris AB. 36 gr. 30/
37899 Log—us Anguli oppositi 43 gr. 12/
14050 Log—us Basis 60 gr. 20 min. quæsitus.

Aliud Exemplum.

Vel constituamus Latus 17 gr. 31 min. 54 sec. & Angulum oppositum 37 gr. 0 min.

119987 Log--us Lateris 17 gr. 31/54//
50780 Log--us Anguli oppositi 37 gr. 0/
69207 Log--us Lateris quæsiti 30 gr. 2 min. 8 sec.

6. Sexto. *Datis duobus angulis obliquis inveniuntur latera illis opposita*, si Log—us anguli, qui lateri quæsito contiguus est, auferatur à Log—o complementi anguli oppositi ; Sic enim restat Log—us complementi Lateris quæsiti. Veluti in oblato Triangulo A B C, angulus A esto 68 gr. 20 min. & angulus C grad. 42 min. 0, quæraturq; Latus B C angulo priori A oppositum.

99640 Log—us complementi Anguli oppositi 68 gr. 20/
40178 Log—us anguli lateri quæsito adjacentis 42 gr.
59462 Log—us complementi Lateris quæsiti 56 gr. 31 min. & Latus ipsum 33 gr. 29 min.

Aliud Exemplum.

Repetamus alterum exemplum superius, ubi prior angulus datus est 50 gr. 0 min. Posterior angulus verò 43 gr. 15 min.

44194 Log—us complementi anguli 50 gr.
37807 Log—us anguli posterioris 43 gr. 15 min.
6387 Log—us complementi Lateris 20 gr. 16 min. ferè.

7. Septimò. *Dato latere cum angulo opposito investigatur alius Angulus dicto lateri adjacens*; si scilicet Log—us complem. Lat. dati subducatur à Log—o complementi anguli lateri oppositi : Ita enim residuus est Log—us anguli dicto lateri adjacentis. Veluti in nostro Triangulo A B C, offertur Latus B C, 56 gr. 30 min. & Angulus A ei oppositus 68 gr. 20 min.

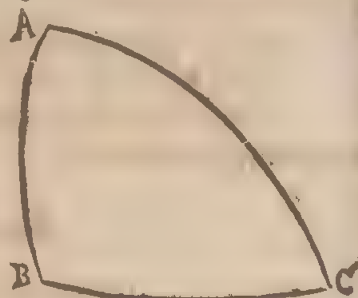
99640 Log—us complem, Anguli oppositi ad A 68 gr. 20 min.
59432 Log—us complem. Lat. BC, 33 gr. 30 min.
40208 Log—us 41 gr. 59 min. anguli Lateri adjacentis C.

Aliud Exemplum.

Vel ponatur Latus 72 gr. 0 min. & Angulus 63 gr. 12 min.
117436 Log—us complem. Lat. 18 gr. 0 min.
79656 Log—us complem. Anguli 26 gr. 48 min.
37780 E. Latus quæsitum est 43 gr. 16 min.

8. Octavò. *Data Base cum uno Latere, Latus aliud adinvenitur,* si auferas Log—um complementi Lateris à Log—o complem. Basis: Sic enim relinquitur Log—us complementi Lat. quæsiti. Veluti data est Basis AC 60 gr. 20 min. & Latus BC 52 gr. 0 min.

70329 Log—us complem. Basis 60 gr. 20/
48506 Log—us complem. Lateris 52 gr.
21823 Log—us Complem. Lateris quæsiti 53 gr. 30 min.



Aliud Exemplum.

117440 Complem. Basis 72 gr.
79635 Complem. Lat. 63 gr. 12/
37805 Log. Lat. quæsiti 43 gr. 14 min.

Quod si hoc Problema communibus Trigonometriæ Sinuum legibus solvendum esset, talis proportio foret instituenda: Sicut sese habet Radius ad Secantem complementi Basis: Ita sese habet Secans complementi anguli dati ad Secantem complementi Lateris oppositi. Vel; Ut sese habet Sinus Basis ad Radium: ita Secans complementi anguli dati, ad Secantem complementi lateris oppositi quæsiti. Vel denique; Ut Secans complementi Basis sese habet ad Radium, ita Sinus anguli dati ad Sinum Lateris oppositi quæsiti. Verùm faciliore operâ per Aphæresin Antilogorum nostri Canonis hoc problema solvitur, sicut paulò ante ostensum fuit.

9. Nonò. *Datis duobus Lateribus circa rectum, acutos angulos ita inquiri-*

inquirimus. (1) Si Antilog—i Laterum datorum conjiciantur in unam summam, & aggregati Log--orum excerpatur arcus, cuius Antilog -us subductus à Log--o Lateris angulo quæsito oppositi, relinquet Log--um anguli quæsiti. Veluti in Triangulo nostro A B C dentur duo latera circa rectum, AB grad. 36. min. 30. BC grad. 52. & investigetur angulus C Lateri AB oppositus. Ubi ita procedendum erit.

21833 Log—us complementi seu Antilog--us Lateris AB.36 gr.30/
48506 Log--us complem. seu Antilog--us Lateris BC 52 gr.0 min.

70339 Aggregatum, quod exhibet Log--um arcus 29 gr.39/50//

51949 Log—us Lateris AB 36 gr. 30 min.
14048 Antilog—us Arcus 29 gr.39/50//.

37901 Log—us anguli quæsiti 43 gr. 12 min.

(2) Deinde compendiosiùs eundem angulum obtinere poterimus, si subtrahimus Log--um Lateris BC, qui quæsito angulo C adjacet, à Meso-log—o alterius Lateris AB. dati: Nam sic prodibit Mesolo--gus anguli C quæsiti abundans.

30116 ✝ Mesolog—us 36 gr.30/ Lateris AB
23824 Log—us 52 gr. 0 min. Lateris BC.

6292 ✝ Mesolog—us Anguli C quæsiti 43 gr. 12 min.

Aliud Exemplum.

Fingatur BC esse grad. 24 min. 47. sec. 4. & Latus AB 17 gr.31/54//

115235 ✝ Mesolog--us Lat. AB. 17 gr.31/54//
86939 Log—us Lat. BC. 24 gr. 47/4//

28296 ✝ Angulus C 37 gr. 0 min.

In vulgari Trigonometria Sinuum per tales proportiones angulorum obliquorum alteruter acquiritur: Sinus Lateris alterutrius est ad Radium, ut Tangens reliqui Lateris ad Tangentem anguli oppositi. Aut, Secans complementi Lateris alterutrius ad Radium est, ut Tangens complementi alterius lateris ad Tangentem complementi anguli oppositi. Aut, Radius est ad Sinum Lateris alterutrius, ut Tangens complementi reliqui lateris ad Tangentem cõplementi anguli oppositi. Vel, Radius est

 ad Se-

ad Secantem Lateris unius, ut Tangens alterius lateris ad Tangentem anguli oppositi. At commodiùs Calculus per præmonstratam viam expeditur.

10. Decimò. *Data Base cum uno angulo Latus adjacens invenitur*, si Log–i datorum in unum addantur & aggregati arcus Antilog–us auferatur ab Antilog–o anguli dati: Tunc enim remanebit Antilog–us Lateris quæsiti: Veluti in Triangulo A B C esto nota Basis A C 60 gr. 20/ & angulus C 43 gr. 13 min.

14050 Log–us Basis 60 gr. 20/
37869 Log–us 43 gr. 13/ anguli C.
51919 Log–us arcus 36 gr. 30 min. 50 sec.

70329 Antilog–us Basis
21851 Antilog–us arcus aggregati.
48478 Antilog–us Lat. adjacentis 38 gr. 1/ & proinde ipsum Latus adjacens 51 gr. 59/.

Deinde citiùs idem latus impetratur, si Antilog–us anguli subtrahatur Mesolog–o Basis deficiente, ita enim relinquitur Mesolog–us lateris adjacentis.

56279 – Mesolog–us Basis 36 gr. 20 min.
31640 Antilog. anguli C 43 gr. 13 min.
24639 – Mesolog–us 51 gr. 59 min. ferè, ut priùs.

Aliud Exemplum.

Ponamus nunc Basin AC 30 gr. & Angulum ad C 60 gr.

54931 – Mesolog–us Basis 60 gr.
14384 Antilog–us Anguli C.
40547 – Mesolog–us Lat. BC. 56 gr. 18 min. 35 sec.

Si operatio instituenda sit per Sinuum Canonem, ita proportio formetur necesse est. Ut Sinus complem. anguli dati ad Radium : ita Tangens complementi Basis est ad Tangentem complem. Lateris dato angulo adjacentis. Vel; Ut Secans anguli dati est ad Radium : ita Tangens Basis ad Tangentem Basis dato angulo adjacentis. Vel etiam; Radius est ad Sinum complementi anguli dati, ut tangens Basis ad Tangentem Lateris angulo dato adjacentis. Aut denique; Radius est ad secantem anguli dati, ut

Tangens

Hieher gehöret die tabula motus horarii Lunæ.

	11. Gr.		12. Gr.		13. Gr.		14. Gr.		15. Gr.	
ſt.	Gr.	/	Gr.	/	Gr.	/	Gr.	/	Gr.	/
1	0	27	0	30	0	32	0	35	0	37
2	0	55	1	0	1	5	1	10	1	15
3	1	22	1	30	1	37	1	45	1	52
4	1	50	2	0	2	10	2	20	2	30
5	2	17	2	30	2	42	2	55	3	7
6	2	45	3	0	3	15	3	30	3	45
7	3	12	3	30	3	47	4	5	4	22
8	3	40	4	0	4	20	4	40	5	0
9	4	7	4	30	4	52	5	15	5	37
10	4	35	5	0	5	25	5	50	6	15
11	5	2	5	30	5	57	6	25	6	52
12	5	30	6	0	6	30	7	0	7	30
13	5	57	6	30	7	2	7	35	8	7
14	6	25	7	0	7	35	8	10	8	45
15	6	52	7	30	8	7	8	45	9	22
16	7	20	8	0	8	40	9	20	10	0
17	7	45	8	30	9	12	9	55	10	37
18	8	15	9	0	9	45	10	30	11	15
19	8	42	9	30	10	17	11	5	11	52
20	9	10	10	0	10	50	11	40	12	30
21	9	37	10	30	11	22	12	15	13	7
22	10	5	11	0	11	55	12	50	13	45
23	10	32	11	30	12	27	13	25	14	22
24	11	0	12	0	13	0	14	0	15	0

Tangens complementi Basis ad Tangentem complementi Lateris dicto angulo adjacentis.
11. Undecimò. *Dato angulo cum Latere adjacente Basin exquirimus*, si Log—us anguli & Antilog—us Lateris in unam summam conjiciantur, & Aggregati Antilog—us auferatur à Log—o Lateris dati: Sic enim relinquitur Log--us Basis. Veluti in Triangulo ABC, angulus C datur 43 gr. 13 min. & Latus ei adjacens BC grad. 52. Ut verò Basis innotescat, ita secundum præceptum procedendum est.

48506 AntiL. Lateris B C, 52 grad.
37869 Log—us Anguli 43 gr. 13 min.
86375 Aggregatum Arcus 24 gr. 56/. cuius Antilog—us est 9783.
23824 Log—us Lateris dati,
9783 Antilog. arcus aggregati 24 gr. 56/.
14041 Log--us Basis 60 gr. 21 min.

Breviùs ita Calculus conficitur, quando Antilog—us Anguli ad Mesolog—um Lateris additur: Sic enim prosilit Mesolog—us deficiens Basis.

24681 — Mesol. Lat. 52 gr. B.C.
31640 AntiL. Anguli 43 gr. 13/.
56321 — MesoL. Basis A C 60 gr 21 min. ferè.

Aliud Exemplum.

Vel constituamus angulum 60 gr. & ipsum Latus 33 gr. 41/25//
14384 AntiL. Anguli 60 gr.
40547 MesoL. Lateris 33 gr. 41/25//
54931 — Mesol. Basis 60 gr.
Datur igitur Basis quæsita 60 gr; 0 min.

In Trigonometria Sinuum talis invenitur in hisce numeris proportio. Radius est ad Sinum complementi anguli, ut Tangens complementi Lateris ad Tangentem complementi Basis: Aut Radius est ad secantem anguli, ut Tangens Lateris ad Tangentem Basis. Vel Sinus complementi anguli est ad radium, ut tangens Lateris ad tangentem Basis. Vel etiam, Sinus complementi anguli est ad Radium, ut Tangens Lateris ad Tangentem Basis. Vel denique, Secans Anguli est ad Radium, ut Tangens complementi Lateris ad Tangentem complementi Basis.

 12. Duo-

12. Duodecimo. *Datâ Base & angulo obliquo alterutro invenitur reliquus angulus* hoc pacto; quando per solos Logarithmos vis operari. Aggregato Log—os datorum Basis & Anguli : Summa excerpat arcum, cuius Antilog--us auferatur ab Antilog--o anguli dati : Sic enim remanebit Log--us anguli quæsiti: E.g. In nostro Triangulo A B C, datur Basis A C 64 gr. 30/ & Angulus C 32 gr. 20 min.



10249 Log--us Basis
62578 Log--us anguli C. 32. gr. 20/.
72827 Huius aggregati arcus est 18 gr. 52 min.
16848 AntiL. anguli C 32 gr. 20/.
13268 Antil. arcus aggregati 28 gr. 52/.
3580 Log. Anguli quæsiti 74 gr. 46 min. ferè.

Faciliùs autem hunc angulum venaberis, si AntiL. Basis adjeceris MesoL-mo anguli : Sic n. proveniet Mesolog--us Defectivus reliqui anguli:

84278 Antil. 64 gr. 30/ Basis AC.
45730 + MesoL. gr. 32.30/ Anguli C.
130008 —MesoL. 74 gr. 45/ fere.

Aliud Exemplum.

Quod si assumamus Basin 60 gr. & Angulum 30 gr. reliquus Angulus nonnihil contractior erit.

69315 AntiL. Basis 60 gr.
54931 + MesoL. Anguli 30 gr.
124246 — MesoL. Anguli quæsiti, qui exæquat 73 gr 53/52//.

Ex Canone Sinuum talis fluit proportio : Ut Sinus complementi Basis est ad Radium : Ita Tangens complementi anguli ad Tangentem anguli reliqui. Aut; Ut Secans Basis est ad Radium : Ita Tangens anguli ad Tangentem complementi reliqui. Vel; Ut Radius est ad Sinum complementi Basis: Ita Tangens anguli ad Tangentem complementi reliqui. Vel denique; Ut Radius est ad secantem Basis, ita Tangens complementi anguli ad Tangentem reliqui.

13. Decimo tertiò, *Dato Latere & angulo adjacente investigatur Latus*

Latus reliquum angulo oppositum; si in unam summam conjiciantur Logarithmus anguli & Antilog--us Lateris & summæ arcus Antilog--us auferatur ab AntiL. o anguli dati, sic enim restabit AntiL. Lateris quæsiti: Veluti in nostro Triangulo detur Latus B C 52 gr. cum angulo C ei adjacente 43 gr. 13 min., quæraturq; Latus AB, quod ei opponitur

48506 Antilog--us Lat. 52 gr.
37859 Log--us Anguli dati 43 gr. 13/.
86365 dat arcum 24 gr. 56/10//.

31640 AntiL. anguli dati 43 gr. 13/
9786 AntiL. summæ arcus.
21854 AntiL. lateris quæsiti 36 gr. 31 min. ferè.

Deinde operatio fit expeditior, si Log--ũ Lateris dati addideris ad MesoL. anguli, sic enim resultabit MesoL Lateris quæsiti angulo oppositi.

23824 Log--us 52 gr. 0/ Lateris BC.
6292 ✝ Mesolog--us anguli C 43 gr. 13/.
30116 ✝ Mesolog. 36 gr. 30/ ferè.

Aliud Exemplum.

Quod si assumamus Latus antè nominatum 56 gr. 18/35// & angulum saltem 30 gr., tunc latus angulo oppositum brevius evadet, ut ex subjecto exemplo apparet:

18387 Log. Lateris 56 gr. 18/35//
54931 ✝ Mesolog. arcus 30 gr.
73318 ✝ MesoL. lateris alterius 25 gr. 39/32//.

In Trigonometria Sinuum ad hunc casum solvendum eiusmodi dantur proportiones: Radius est ad Sinum Lateris dati, ut Tangens anguli adjacentis ad Tangentem reliqui Lateris. Vel; Radius est ad Secantem complementi lateris, ut Tangens complementi anguli adjacentis, ad Tangentem complementi lateris oppositi. Vel etiam; Sinus lateris dati est ad Radium, ut Tangens complementi anguli adjacentis ad Tangentem complementi Lateris reliqui. Vel denique, Secans complementi Lateris dati est ad Radium, ut Tangens anguli adjacentis ad Tangentem Lateris eidem Radio oppositi.

14. Decimo quartò. *Datâ Base cum uno latere manifestatur angulus ab his comprehensus*, quando Antilog--us Lateris ab Antilog--o Basis

aufertur,

aufertur, & quando residuum in arcū convertitur, & ab eius Antilog--o Log--us Basis subtrahitur. Sic enim relinquetur Log--us anguli quæsiti. Veluti in nostro Triangulo datur Basis A C 64 grad. 30 min. & Latus A B 28 gr. 51 min.

84278 Antilog--us Basis 64 gr. 30/.
13284 Antilog--us Lateris 28 gr. 51/.
70994 Log--us arcus dat 29 gr. 27 min.

13836 Antilog--us Arcus prioris residui.
10249 Log--us Basis 64 gr. 30 min.
3587. Log--us anguli comprehensi quæsiti A. 74 gr. 45 min.

Verùm promptiùs se sistit calculus, quando Mesolog--us Basis & Meso L. lateris aggregantur, tunc enim prodit Antilog--us anguli quæsiti, ut ex subjecto Exemplo patet.

74029 -- Mesolog--us 64 gr. 30 min. Basis A C.
59622 + Mesolog--us 28 gr. 51 min. Lateris A B.
133651 Antilog--us Anguli A. 74 gr. 46/ ferè.

Aliud Exemplum.

Quod si Basis hic assumatur 60 gr. & Latus 56 grad. 18/35//. Tunc minor Meso L. ad significationem numeri defectivi est subtrahendus à Meso L. majore, & remanet Antilog--us anguli quæsiti comprehensi, sicut ex operatione apparet.

54931 -- Mesolog--us Basis 60 gr.
40546 -- Mesolog--us Lateris 56 gr. 18/35//
14385 Antil. anguli quæsiti 30 gr.

In Trigonometria Sinuum tali proportione proceditur: Tangens complementi Lateris dati est ad Radium ut Tangens complementi Basis ad Sinum complementi anguli comprehensi. Vel; Tangens Lateris dati est ad Radium, ut Tangens Basis ad Secantem anguli comprehensi. Vel; Radius est ad Tangentem complementi Lateris dati, ut Tangens Basis ad Secantem anguli comprehensi. Vel denique; Radius est ad Tangentem Lateris dati, ut Tangens complementi Basis ad Sinum complementi anguli comprehensi.

15. Decimò quintò. *Dato Latere & angulo opposito exquiritur reliquum*

reliquum Latus, si constiterit, quadrantene majus sit, an v. minus: Nam subduc Log–um anguli oppositi â Log–o Lateris, residuum converte in arcum, & ab eius Antilog–o subtrahe Antilog–um Lateris, & sic obtinebis Antilog–um Lateris reliqui quæsiti. Veluti in nostro Triangulo ABC habetur Latus AB 36 gr. 30 min. cum angulo ei opposito C. 43 gr. 13 min. & exploratur reliquum latus BC.

51949 Log–us Lateris 36 gr. 30/ AB.
37869 Log–us Anguli 43 gr. 13/.

14080 Log--us arcus, qui exhibet 60 gr. 18/.

70227 Antilog–us arcus.
21833 Antilog–us lateris.

48394 Antilog–us lateris quæsiti BC 51 gr. 57 min. ferè.

At expeditior est calculus in hac operatione & proportione: Ut sese habet Sinus totus ad Mesolog–i anguli complementum, ita Mesolog--us lateris ad Log–um reliqui lateris.

30116 + Mesolog. anguli 36 gr. 30/.
6229 — Mesolog. complementi lateris 43 gr. 13 min.

23887 Log–us Lateris quæsiti BC 51 gr. 57/ ferè.

Aliud Exemplum.

Vel assumatur angulus oppositus 30 gr. & latus 25 gr. 39 min. 32 sec.

73318 — Mesolog. complementi Lateris 25 gr. 39/ 32//
54931 + Mesolog. anguli 30 gr.

18387 Log. Lateris AC 56 gr. 18 min. 35 sec.

Ex Canone Sinuum idem latus per talem proportionem eruitur: Ut Tangens anguli dati est ad Radium: ita Tangens lateris oppositi ad Sinum lateris reliqui. Vel ut Tangens complementi anguli noti est ad Radium, ita Tangens complem. Lateris oppositi ad Secantem complementi Lateris alterius. Vel; Ut Radius ad Tangentem anguli dati, ita Tangens complementi alterius lateris ad secantem complementi Lateris oppositi. Vel denique; Ut Radius est ad Tangentem complementi anguli dati: ita Tangens lateris oppositi ad Sinum lateris reliqui.

16. Decimò sextò & ultimò. *Dato utroq; angulo obliquo datur Basis, si Log--us anguli unius ab Antilog--o anguli alterius subtrahatur:*

Nam residuus dabit arcum, à cuius Antilog--o subductus Log.-us anguli alterius relinquet Log--um Basis. Veluti detur nostrum Triangulum Rectangulum notorum angulorum, ad A 74 gr. 45 min, ad C 32 gr. 30 min.



133548 Antilog--us anguli ad A 74 gr. 45 m.
62120 Log--us anguli ad C. 32 gr. 30 min.

71428 Log--Arcus 29 gr. 18/40//.

13699 Antilog--us Arcus 60 gr. 41/20//
3585 Log.-us anguli 74 gr. 45/

10114 Log. dat 64 gr. 40 Basin quæsitam.

Sed promptior & facilior fit Calculus in hac proportione. Ut Radius ad complementum Tangentis anguli C, vel MesoL. eius: ita Mesolog--us anguli A ad Antilog.-um Basis quæsitæ A C.

129963 — Mesolog--us anguli A 15 gr. 15 min.
45088 + Mesolog--us anguli C 32 gr. 30 min.

84875 AntiLog. Basis quæsitæ AC 64 gr. 40/

Aliud Exemplum.

Statuatur unus angulus esse 73 gr. 53/52// & alter 30 gr. inquiraturque Basis per eundem processum.

124244 — MesoL. 73 gr. 53/52//.
54931 + MesoL. 30 gr.

69313 Antilog--us Basis 60 gr. ferè.

Ex Canone Sinuum eadem Basis per tale ratiocinium obtinetur: Tangens anguli alterius est ad Radium, ut Tangens complementi anguli reliqui ad Sinum complementi Basis. Vel; Tangens complementi anguli alterius, est ad Radium, ut Tangens anguli reliqui ad Secantem Basis. Aut; Radius est ad Tangentem anguli alterutrius, ut Tangens anguli reliqui ad Secantem Basis. Aut denique; Radius est ad Tangentem anguli alterutrius, ut Tangens complementi anguli reliqui ad Sinum complementi Basis. *Et tantum de Triangulis Sphæricis Rectangulis. Nunc ab obliquangula progredimur.*

CAPUT VII.

De solutione Triangulorum Sphæricorum non quadrantalium, seu obliquangulorum.

IN solutione Triangulorum obliquangulorum Sphæricorum 1. attendendum est quid sit Triangulum Sphæricum non quadrantale, nimirum id, cuius nec latus nec angulus quadrans est. 2. Quotuplex sit eius solutio, quam in aliquot casibus ostendam. Dantur enim hîc XII. casus, quorum varietas primùm in hac Διχοτομία consistit. Nam partes tres dati Trianguli aut sunt puræ h. e. vel latera, vel anguli, aut Miscellaneæ, quarum una est diversi generis reliquis duabus, veluti cum dantur duo latera, & angulus aliquis, aut duo anguli cum latere aliquo. Puræ cùm simplicitate sint priores, licet non destituantur suâ difficultate, primùm hîc sortiantur locum.

1. Casus. Proinde *datis tribus Trianguli Sphærici lateribus, habetur & quivis angulorum hoc pacto* : Quia in Triangulis Sphæricis non quadrantalibus summa ex Log--is crurum subducta à summa ex Log--is aggregati & Differentiæ semiBasis, nec non Differentiæ Crurum relinquit duplum Log--i dimidii anguli verticalis (sicut id *NEPERUS lib. 2. descript. Canonis Log--orum cap. 6. Adm. 3. ex Regiomontani lib 5. cap. 2 de Triangulis* luculenter demonstrat.) Idcirco sequitur, quod, si Log--i crurum in unam summam conjiciantur, postea differentia etiam duorum crurum in suis gradibus & minutis accipiatur, bisecturque, ut prodeat Semidifferentia crurum: Deinde quoque Basin bipartiaris, ut SemiBasin obtineas, & aggreges Semibasin ac Semidifferentiam crurum, nec non eorundem differentiam quoque accipias. Exinde aggregati Semibasis & Semidifferentiæ Log--um addas ad Log--um Differentiæ SemiBasis ac Semidifferentiæ, atque tunc ab ea summa subducas summam utriusque cruris asservatam, ut obtineas duplum Log--i dimidii anguli quæsiti. Necesse est igitur, ut Log--us iste bisectus ostendat quendam arcum, cuius duplum sit angulus quæsitus : Id quod ex nonnullis exemplis & ipso operationis modo abunde satis apparebit.



Assumam autem 1 exemplum *NEPERI l. d. adm.* 8. Ubi datur Triangulum P.Z.S. Crus PZ 34 grad. & Crus ZS 47 gr. Basis verò, quæ quæsitum angulum subtendit, 69 grad.

31286 Log_us Cruris ZS, 47 gr.
58126 Log_us Cruris ZP 34 gr.
89412 Summa Log_orum Crurum.

Crus ZS 47 grad.	Basis PS 69 gr.	
Crus ZP 34 grad.	Semibasis 34 gr. 30/	
Differ. 13 gr.	Semidiff. Crurũ 6 gr. 30/	
Semidiffer. 6 gr. 30/.	Aggr. Semibasis 41 0 & Semidiff.	Log. 42150
	Differ. 28 0	Log. 75615
	Summa	117765
	Summa Log. Crurum	89412
	Duplum Log_i	28353
	Log. cuius arcus est	14176

60 gr. 12/24// qui duplicatus dat quæsitum angulum PZS. 120 gr. 24/48//.

Exemplum 2. esto *Keppleri ex complemento Chiliadis pag. 156.* Crus unum sit 70 gr. 2/ Alterum 38 gr. 30 min. & Basis 40 gr. 0 min.

6199 Log. Cruris 70 gr. 2 min.
47399 Log. Cruris 38 gr 30 min.
53598 Summa Log-orum crurum.

Crus 70 gr. 2 min.	Basis 40 gr.	
Crus 38 gr. 30 min.	Semibasis 20 gr.	
Differ. 31 32	Semidiff. 15 gr. 46./	
Semid. 15 46	Aggreg. Semib. 35 gr. 46/ & Semidiff.	Log. 53702
	4 14	260615
		Summa 314317

Summa

Summa 314317
Sum.Log.Crur. 35598
260719

Log.arcus 15 gr. 130359
45/25//qui duplicatus ostendit angulum quæsitum, videlicet 31 gr.30/50//.

Exemplum 3 esto *Ursini*, quod habet *lib 3 Trigonometriæ cap. 5. caf. 1. p. 270.* Crus unum sit 37 gr. Alterum 56 gr. 56 min. 16 sec. & Basis 78 gr. 41 min.

50780 Log. Cruris 37 gr.
17664 Log. cruris 56 gr.56/16//
68444 Summa Log--orum crurum.

Crus	56 gr. 56 min. 16 sec.	Basis	78 gr.	41 min.	
Crus	37 gr.	Semibasis	39 gr.	20/30//	
Differ.	19 gr. 56 min. 16 sec.	Semidiff.	9.	58	8
Semidiff.	9 gr. 58 min. 8 sec.	Agg.SemiB. & Semidiff.	49.	18	38
		Differ.	29	22	22

27674 Log--us Aggreg. SemiB. & Semidiff.
71235 Log--us Differ. SemiB. & Semidiff.
98909 Summa
68444 Summa Log--orum crurum,
30465 Duplum Logar--um,
15232 Log--us, qui dat arcum 59 grad. 10/21 // quiq; duplicatus dat angulum quæsitum 118 gr.20/42//

Hisce etiam 4 Exemplum *ex dogmate secundo Triangulorum Sphæricorum Christiani S Longomontani pag.33.* subjiciam, quod ille secundum Trigonometriam Sinuum tractat, nos autem huius Trianguli arcum ex Canone Log- orum pervestigabimus. Unum Crus est 60 grad. Alterum 50 gr. & Basis 26 gr.22/20//.

26651 Log--us Cruris 50 gr.
14384 Log--us Cruris 60 gr.
41035 Summa Log--orum crurum.

Crus	60 graduum	0 min.	
Crus	50 graduum	0 min.	
Differ.	10 grad.		
Semid.	5 grad.		

Basis est	26 gr. 22/20//
Semibasis	13 gr. 11/10//
Semidiff.	5 gr.
Aggreg. Semibasis & Semidiff.	18 gr. 11/10//
Differ.	8 11, 10.

116442 Log--us Aggreg. Semibasis & Semidiff.
194919 Log--us Differ. Semibasis & Semidiff.

311361 Summa,
41035 Summa Log--orum crurum.

270326 Duplum Logar--i.

135163 Log. arcus 15 gr. qui duplicatus exhibet angulum 30 gr.

Quamvis etiam idem angulus non solùm per Log--os & AntiLog--os, verùm etiam Mesolog---os, atque sic triplici modo elici possit, ceu *NEPERUS lib. 2. descript. Canon. Logar. cap 6. adm. 9. & 10.* ostendit: tamen, cum hic traditus à nobis modus sit omnium facilimus & expeditissimus, ideoq; in eo acquiescimus. Nam per hunc ex elevatione Poli, altitudine Solis & eiusdem declinatione cognitis, vel hora diei, vel angulus positionis Solis, vel deniq; plaga Solis pervestigari potest.

Qui verò & reliquos scire percupiunt, præfatum NEPERVM dicto loco consulant. Nos ad reliquos brevitatis studio properamus Casus.

2. Secundus Casus. Quemadmodum autem ex lateribus inveniuntur anguli: ita quoque *ex angulis perspectis inquiruntur singula latera:* Nam hic Casus est prioris quasi inversio, ob laterum & angulorum oppositorum inter se Anomaliam: sicut huius rei luculentam demonstrationem Trigonometriæ Scriptores evidenter proponunt; ceu apud *Pitiscum*, *Adrianum Romanum*, *Lansbergium* & alios videre est. Quippe angulis hîc loco laterum assumtis non adeò multum à priore diversa operatione latera innotescunt Siquidem & hîc Log--i angulorum Latus attingentium in unam summam conjiciuntur; & si anguli sunt obtusi, eorum complementa ad Semicirculum accipiuntur: Deinde etiam angulorum latus quæsitum attingentium cape differentiam: Postea in promptu quoque sit angulus tertius lateri quæsito subtensus vel oppositus:

tus: Qui si erit obtusus & maximus, adhibe quoque complementum eius ad Semicirculum. Deinde differentiam angulorum latus attingẽtium ab angulo tertio vel eius complemento subduc, & tàm summam quàm residuum biseca, bisectorum Logar--os aggrega, ab aggregato aufer summam Log--orum duorum angulorum latus attingentium primo loco investigatam. Residui Log--i accipe Semissem, qui semissis est dimidium lateris quæsiti ex columna arcuum, si tertius angulus lateri oppositus fuerit acutus: Sin verò fuerit obtusus, tunc duplica datum arcum, & accipe complementum eius ad Semicirculum, quod est ipsum latus quæsitum.

Praxin jam per exempla in numeris ostendam.

Exemplum I, esto *Neperi ex libro 2. descr. Canon. Log. c. 6. adm. 12.*



In Triangulo subjecto Q. R. T. dantur anguli ad T 34 gr. ad R, III, gr. & deniq; ad Q 47 grad. Quæraturq; latus RT, angulo Q oppositum.

6873 Log--us complem. angul. R, ad Semicirc. 69 gr.
58126 Log--us anguli T 34 gr.

64999 Summa Log--orum angul. latus quæsitum attingent.

Anguli R. Complem. ad Semicirc. 69 gr.
Angulus T. 34 gr.

Differentia angulorum 35 gr.
Tertius angul. Lat. quæsito oppositus 47 gr.
Differentia angulorum 35 gr.

Summa Diff. angulor. & tertii anguli 82 gr. Bisecta sum̃a 41 gr.

Residuum Diff. angulorum à tertio 12 Bisectũ resid. 6 gr.

42150 Log--us Bisectæ summæ 41 gr.
225829 Log--us Bisecti residui 6 gr.

267979 Summa.
64999 Summa Log--orum angul. latus quæsitum atting.

202980 Residuum Log--i.

101490 Semissis, qui dat arcum 21 gr. 15 min. isque duplicatus exhibet latus quæsitum RT, 42 gr. 30. Eodem modo & reliqua latera indagantur[illegible] Latus QR. 31 gr. 6 min. 5 sec. & Latus QT 120 gr 24 m. 49 sec. [illegible] *Kepleri in complem Chiliad pag. 161,* ubi dantur

anguli

anguli latus quæsitum attingentes 31 gr. 34/ & 30 gr. 28 min. nec non tertius angulus quæsito lateri subtensus 130 gr. 3 min.

64724 Log--us anguli 31 gr. 34 min.
67917 Log--us anguli 30 gr. 28 min.

132641 Summa Log--orum angul. latus quæsitum attingent.

Angulus	major	31 gr.	34 min.
Angulus	minor	30 gr.	28 min.
Differentia	angul.	1. gr.	6 min.

Quia verò tertius angulus Lateri quæsito oppositus est obtusus, h.e. Quadrantem excedit, iccircò assume eius complementum ad Semicirculum.

180 gr. Semicirculus.
130 gr. 3 min.

49 57 Complem. tertii angul. ad Semicirc.
1 6 Different. angulorum.

25 gr. 31/30// Bis. Summæ 51 3 Summa diff. angul. & tertii anguli.

24 gr. 25/30// Bis. resid. 48 51 Resid. Diff. angul. à tertio.

84187 Log--us Bisectæ summæ 25 gr. 31/30//
88308 Log--us Bisecti residui 24 gr. 25/30//

172495 Summa.
132641 Summa Log--angul. latus quæsitum attingent.

39854 Residuum Log--i.

19927 Semissis Log--i, qui exhibet semissem arcus complementi ad Semicirculum, videlicet 55 gr. 1 min. qui conduplicatus & subtractus à Semicirculo (eò quod tertius angulus existat obtusus) relinquit latus quæsitum, 55 gr. 1 min.
55 gr. 1 min.

180
110 2

E. latus quæsitum est 69 gr. 58./ ferè.

Exemplum 3 esto *Longomontani in solut. Triangulorum Sphæricor. Obliquangul. dogmate 3. pag. 34.* qui tale proponit solvendum

Schema



Schema ex *Lansbergio.* Sit Triangulum Sphæricum obliquangulum A B C notum in angulis, & angulus ad A sit 30 grad. Angulus ad B obtusus 102 grad. 53 min. 31 sec. Et denique angulus ad C lateri quæsito B A subtensus grad. 59 min. 34 sec. 22, quæraturq; præfatum latus BA.

2553 Log--us complem. anguli B attingentis La-
69315 Log--us anguli A 30 gr. (tus 77 gr. 6/29//

71868 Summa Log. angul. latus quæsitum attingentium.

Complement. anguli majoris	B.	77 gr. 6 min. 29 sec.
Angulus minor	A.	30 gr. 0 min. 0 sec.
Differentia angulorum		47 gr. 6 min. 29 sec.

Tertius angul. Lat. quæsito opposit.	59 gr 34/22//
Differentia angulorum	47 gr. 6/29//
Summa Diff. angul. & tertii ang.	106 gr. 40/51// Sum̃a Bis. 53 gr. 20/25//
Resid. Differ. angul. à tertio	12 gr. 27/53// Resid. Bis. 6 gr. 13/56//

22039 Log--us Summæ bisectæ 53 gr. 20/25//
222029 Log--us Residui bisecti 6 gr. 13/56//

244068 Summa
71868 Summa Log--orum angul. latus quæsitum atting.

172200 Residuum Log--i.

86100 Semissis, qui exhibet arcum 25 gr. 0/ ferè, isque duplicatus ostendit arcum quæsitum B A 50 grad., ut & habet *Severini* calculus.

Atque sic ex angulis per conversionem Latera acquires, cuius usum in sequente capite haut dubiè percipies: Nam ex hora diei, plaga Solis & angulo positionis Solis per hunc casum Elevationem Poli primùm, deinde altitudinem Solis & denique Declinationem Solis consequeris.

3. Tertius casus. Hactenus partes puras Trianguli Sphærici non quadrantalis vidimus: Miscellaneæ jam sequuntur, ideo dictæ, quod una pars sit diversi generis à reliquis duabus: e. g. quando dantur duo latera & angulus aliquis, aut duo anguli & aliquod latus. Observandum autem hìc est, quod in partibus Miscellaneis datis, si ab illo termino lateris dati, in cuius reliquo sit angulus datus, cadat ad Basin perpendicularis, aut quadrans datum illum angulum subtendens, reducatur non quadrantale ad

bina quadrantalia: Proinde & non quadrantalis partes innotescere possunt: Revocemus enim ad hunc casum solutionem Trianguli Sphærici obliquanguli h. e. non quadrantalis, *in quo datis duobus lateribus & angulo interposito seu incluso, quæritur latus tertium angulo dato oppositum:* Siquidem adde Log-o lateris minoris Log-um anguli comprehensi, & prodit Log-us perpendiculi in latus majus, quod perpendiculum constituit duo lateris elementa. Quippe perpendiculi Anti-Log. ablatus ab Antilog-o lateris minoris dat Log-um, cuius arcus complementum est primum ex illis elementis, idque addi (quando angulus comprehensus obtusus est,) vel auferri debet (quando angulus est acutus) â toto latere majori: Summa vel residuum est elementum alterum, cuius Elementi AntiLog. additus Antilog-o perpendiculi, manifestat Antilog-um lateris tertii quæsiti.

Ad hoc præceptum revocabimus quatuor autorum exempla:

Exemplum 1 esto *Neperi* quod extat *in descriptione Canon Log-orum lib 2. cap. 5. concl. 8.* Ubi in Triangulo Sphærico P.Z.S. Latus minus PZ. datur 34 gr. Latus majus PS. 69 gr. & angulus comprehensus ZPS 42 gr. 29/59//, quæraturq; tertium latus ZS.



58126 Log-us Lat. minoris PZ, 34 gr.
39218 Log-us Anguli inclusi ZPS 42 gr. 29/59//.

97344 Log-us perpendiculi in latus majus, qui dat arcum 22 gr. 11 min. 47 sec.

18749 Antilog-us Lat. minoris
7699 Antilog-us Perpendiculi.

11050 Dat arcum gr. 63 min. 33 sec. 30. cuius complementum est 26 gr. 26 min. 30 sec. quod est Elementum primum.

G.	M.	S.	
69	0	0	Latus majus.
26	26	30	Elementum unum.
42	33	30	Elementum alterum.

30572 Antilog-us Elementi alterius
7699 Antilog-us Perpendiculi.

38271 Antilog-us lateris tertii quæsiti, cui respondet arcus 47 grad. 0 min. isq; est latus tertium quæsitum.

Exem-

Exemplum 2 esto *Keppleri ex complemento Chiliad. pag. 155.* desumtum & ad nostram methodum tractatum, sicuti & reliqua omnia. Constituitur autem ab eo Latus minus 38 gr. 30 min. Latus majus 70 gr. 2 min. & Angulus interceptus, 31 gr. 34 min, & hinc eliciatur Latus tertium angulo oppositum.

47399 Log–us Lat. minoris 38 gr. 30 min.
64724 Log–us anguli intercepti 31 gr. 34 min.

112123 Log–us perpendiculi in Latus majus, qui exhibet arcum 19 gr. 0 min.

24512 AntiLog–us Lat. minoris
5602 Antilog–us Perpendiculi.

18910 qui dat arcum Elementi primi 34 gr. 8 min. 10 sec.

G.	M.	S.	
70	2	0	Latus majus.
34	8	10	Elementum prius.
35	53	50	Elementum posterius.

21063 Antilog–us Elementi posterioris.
5602 Antilog–us perpendiculi.

26665 Antilog–us lateris tertii quæsiti, qui ostendit latus ipsum quæsitum 40 gr. 0 min. 30 sec.

Exemplum 3 quod hîc assumemus est *Christiani S. Longomontani*, quod ille ad Canonem Sinuum exigit in *Astronomia Danica pag. 36.*



In Triangulo oblato datur Latus majus AC 60 gr. 0 min. Latus minus CB. 49 gr. 59 min. 27 sec. Angulus interceptus ad C 30 gr. 0 min.

26664 Log. Lat. CB 49 gr. 59/27//.
69315 Log. Ang. Intercepti 30 gr. 0 min.

95979 Log–us perpendiculi in latus majus, qui dat arcum 22 gr. 31 min.

44177 Antilog–us Lat. minoris.
7929 Antilog–us perpendiculi.

36248 qui dat arcum Elementi prioris 45 gr. 53 min. 50 sec.

G.M.S.
60 0 0 Latus majus
45 53 50 Elementum prius.
14 6 10 Elementum posterius.

3060 Antilog–us Elementi posterioris.
7929 Antilog–us perpendiculi.

10989 Antilog–us lateris tertii quæsiti, cuius arcus invenitur 26 gr. 22 min. 20 sec.

Exemplum 4. esto *Ursini*, ad nostrum præceptum revocatum. Ubi datur Latus majus 78 gr. 41 min. Latus minus 37 grad. 0 min. & Angulus interpositus 48 gr. 47 min. quæraturq; Latus tertium.

50780 Log–us Lat. minoris 37 gr.
28472 Log–us Anguli intercepti 48 gr. 47/.

79252 Log–us perpendiculi in latus majus, cuius arcus est 26 gr. 55/. 2//.

22485 Antilog–us Lat. minoris.
11467 Antilog–us perpendiculi.
11018 Log. arcus Elementi prioris 26 gr. 24 min. 20 sec.

G. M. S.
78 41 0 Latus majus
26 24 20 Elementum prius
52 16 40 Elementum posterius.

49129 Antilog–us Elementi posterioris
11467 Antilog–us perpendiculi

60596 Antilog–us arcus lateris quæsiti, qui est 56 grad. 55 min 16 sec. & ipsum tertium latus quæsitum.

Possem hîc etiam ostendere, quomodo huiuscemodi Triãgula obliquangula ad bina quadrantalia seu Rectangula essent reducenda, si videlicet à vertice ad eorundem Basin demittatur Perpendicularis aut quadrans arcus: Verùm, cum hîc declinatis ambagibus viam compendiariam sectemur, & præmonstrata talis sit, nolo hîc omnia ad vivum resecare, sed Mathematum studiosum ad ipsum Neperum ablegare, cuius exempla si ad hunc præscriptum modum exegerit, rem totam facilè assequetur. Quamobrem nos ad reliquos casus expediendos convertimus.

4. Q

Regestr.

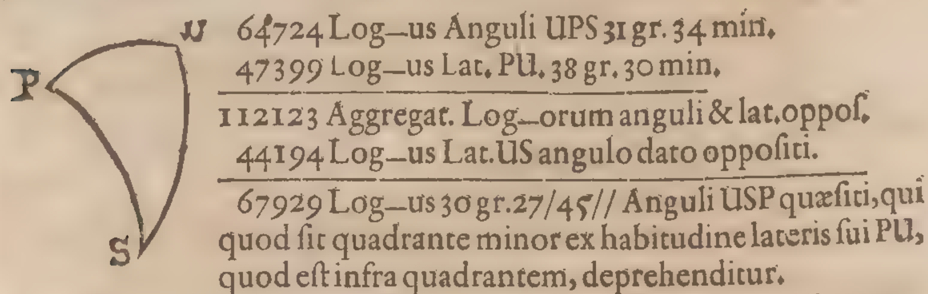
Cyny ktora się poszła do Staszewa.
Na przod. Die 16 Maii 1637.

Mis — — 3
Pulmiskow — — 8
Talerzy wielkich - 2
Talerzy mniejszych - 12
Talerzykow małych - 3
Tac — — — 12
Konewek — — — — 4
Czarek — — — . 4
Miednica z nalewką - 1

Ja summa wszytkiego 49. [illegible]

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4. Quartus Casus. *Datis in Triangulo Sphærico duobus lateribus & angulo uni eorum opposito, quæratur angulus alteri datorum laterum oppositus.* Hîc adde ad Log–um anguli Log–um Lat. dati, quæsito angulo oppositi, à Summa auferatur Log–us Lat. angulo dato oppositi, & remanebit Log–us anguli quæsiti, qui recto vel est major, vel minor, atq; inde cognoscitur, quod duorum obliquorum angulorum quilibet sit eiusdem speciei, cuius est latus, quod angulum subtendit: Unde alterutrius datâ, reliqui quoque patet species. Veluti primi paradigmatis loco ponamus Triangulum, quod habet *Kepplerus in complem. Chiliad. pag 153.* Ubi in Triangulo PUS datur Latus US 40 gr. 0 min. cum angulo ei opposito UPS 31 gr. 34 min. & alterum latus PU 38 gr. 30 min: quæraturq; angulus USP lateri PU oppositus.



64724 Log–us Anguli UPS 31 gr. 34 min.
47399 Log–us Lat. PU. 38 gr. 30 min.

112123 Aggregat. Log–orum anguli & lat. oppos.
44194 Log–us Lat. US angulo dato oppositi.

67929 Log–us 30 gr. 27/45// Anguli USP quæsiti, qui quod sit quadrante minor ex habitudine lateris sui PU, quod est infra quadrantem, deprehenditur.

Vel fingatur unum latus esse 56 gr. 56 min. 16 sec. cum angulo opposito 48 gr. 47 min. & Latere altero 37 grad.

28472 Log–us Anguli 48 gr 47 min.
50780 Log–us Lateris 37 grad. 0 min.

79252 Aggreg. Log–orum.
17664 Log–us Lat. 56 gr. 56/16//.

61588 dat angul. quæsitum 32 gr. 41/41//.

Vel denique statuatur unum Latus 26 gr. 22 min. 20 sec. cum angulo opposito 30 gr. & altero latere 60 grad. eiusq; quæratur angulus.

69315 Log–us anguli 30 grad.
14384 Log–us lateris 60 grad.

83699 Aggreg. Log–orum.
81148 Log–us Lat. 26 gr. 22/20//.

2551 qui dat arcum 77 gr. 6 min. 40 sec.

& est angulus alteri lateri oppositus. Quod si fuisset obtusum, foret iste angulus 102 grad 53 min. 20 sec.

5. Quintus Casus. *Si iisdem duobus datis lateribus & angulo uni eorum opposito quæratur tertium latus*, tunc conjice in unam summam Log–os anguli dati, & lateris vicini seu contigui, proditq; Log–us Perpendiculi, cuius Antilog–us subductus sigillatim ab Antilog–o cuiuslibet dati lateris, relinquit arcus duorum Log–orum, quorum vel Differentia, vel Antilog–orum summa, prout alter angulus acutus vel obtusus fuerit, est latus quæsitum tertium.

Repetantur Exempla priora, & initio primum ex *Kepplero* desumtum, in quo datum est latus P U 38 gr. 30 min. Latus U S 40 gr. 0 min. & angulus uni eorum oppositus UPS 31 gr. 34 min. quæraturq; tertium latus SP,

64724 Log. Anguli UPS 31 gr. 34 min.
47399 Log. Lateris P U 38 gr. 30 min.

112123 Antilog. Perpendiculi 70 gr. 58/50// & Log–us 19 gr. 1 min. 10 sec.

24512 Antilog–us Lateris P. U.
5614 Antilog–us Perpendiculi

18898 Log–us primi arcus relictus 55 gr. 52 min. 20 sec. Antilog–us verò 34 gr. 7/40//.

26651 Antilog–us lateris U S
5614 Antilog–us Perpendiculi.

21037 Antilog–us alterius arcus 35 gr. 52/40//.

G.	M.	S.
34	7	40
35	52	40
70	0	20.

Tertium latus quæsitum, eò quod angulus oppositus sit acutus, alioquin si esset obtusus, acciperem Differentiam unius ab altero, quæ esset 1 gr. 45/0//. Vide 3 Exemplum.

In 2 Exemplo dabatur latus unum 37 gr. 0 min. alterum verò 56 gr. 56 min. 16 sec. & angulus oppositus 48 gr. 47 min.

28472 Log–us Anguli 48 gr. 47 min.
50780 Log–us Lateris 37 gr. 0 min.

79252 Log–us perpendiculi 26 gr. 55 min. & Antilog–i arcus 63 gr. 5 min.

60596 Antilog_us Lat. 56 gr. 56 min. 16 sec.
11466 Antilog_us Perpendiculi.

49130 Antilog_us arcus prioris 52 gr. 16 min. 40 sec.
22485 Antilog_us lateris 37 gr.
11466 Antilog_us Perpendiculi.

11019 Antilog_us arcus posterioris 26 gr. 22 min. 20 sec.

Gr.	M.	S.	
52.	16	40	
26	24	20	
78	41	0	Latus tertium quæsitum.

In tertio Exemplo offerebatur latus unum 26 gr. 22/20//. alterum verò 60 gr. & angulus uni laterum oppositus 30 grad: Angulus verò lateri quæsito oppositus statuitur obtusus.

69315 Log_us Anguli 30 gr.
14384 Log_us Lateris 60 gr.

83699 Log_us Perpendiculi 25 gr. 39/30// & Antilog_us 64 gr. 26/30//.

69315 Antilog_us Lateris 60 grad.
10381 Antilog_us Perpendiculi.

58934 Antilog_us arcus prioris 56 gr. 18/40//.
10989 Antilog_us Lateris 26 gr. 22/20//.
10381 Antilog_us Perpendiculi

608 Antilog_us arcus posterioris 6 gr. 18 min. 40 sec.

G.	M.	S.	
56	18	40	
6	18	40	
50	0	0	Latus tertium quæsitum.

6. Sextus Casus. *Quod si iisdem datis duobus lateribus, quæratur angulus inter hæc latera comprehẽsus, tunc habeas etiam in promtu necesse est tertium latus ad modum in præcedente quinto casu propositũ.* Quo impetrato, adde eius Log_o Log_um anguli dati, & ab aggregato aufer Log_um Lateris, cui datus angulus opponitur: Sic enim remanebit Log_us anguli comprehensi, ejusvé complementi ad duos rectos, in magna proportione. Veluti repetamus hîc priora exempla, in initio quidem

quidem primum, in quo dantur Latus PS 70 gr. 0/20// Latus US 40 gr. & angulus oppositus US videlicet UPS 31 gr. 34 min. quæraturque angulus tertio lateri oppositus SUP.

6217 Log—us Lateris PS 70 gr. 0/20//.
64724 Log—us anguli UPS 31 gr. 34/.

70941 Aggregatum
44194 Log—us lateris US 40 gr.

26747 Log—us anguli PUS uni lateri videlicet PS oppositi, 49 gr. 56/10//.

In secundo exemplo datum est unum latus 78 gr. 41 min. & alterum latus 56 gr. 56/16// & angulus 48 grad. 47 min.

1963 Log—us Lateris 78 gr. 41 min.
28472 Log—us anguli 48 gr. 47 min.

30435 Aggregatum.
17664 Log—us alterius lateris 56 gr. 56/16//.

12771 Log—us anguli quæsiti, videlicet 61 gr. 39/20//.

In 3 Exemplo oblata sunt duo latera 50 gr. & 26 gr. 22/20// cum angulo uni lateri opposito 30 grad.

26651 Log—us Lateris 50 grad.
69315 Log—us anguli 30 grad.

95966 Aggregatum.
81148 Log—us Lateris 26 gr. 22/20//.

14818 Angulus quæsitus 59 gr. 34/20//.

Complementum anguli ad duos rectos facilè patet ex magna proportione: Quando verò dubitas, tunc quærenda sunt eius elementa.

7. Septimus Casus. Eodem etiam modo, *datis Trianguli Obliquanguli duobus lateribus cum angulo ab eis comprehenso, quemlibet angulum è reliquis inquirere possumus.* Manet enim eadem proportio: Quippe quæsito tertio latere, eiusq; Log—o ablato à summa Log—orum anguli initio dati, & Lateris seu Basis angulo quæsito subtensi, relinquitur Log—us anguli tertio lateri oppositi.

Nam in 1. Triangulo datus est angulus PUS 49 gr. 56/10// & latus US 40 grad. cum altero latere PS 70 gr. 0/20//, quæraturq; angulus UPS.

26747 Log—us anguli PUS 94 gr. 56 min. 10 sec.
44194 Log—us lateris US. 40 gr.

70941 Aggregatum
6217 Log—us lateris PS 70 gr. 0 min. 20 sec.

64724 E. datur angulus quæsitus UPS. 31 gr. 34 min.

Ita quoq; reliqua duo Exempla sunt tractanda.

12771 Log—us anguli dati 61 gr. 39 min. 20 sec.
17664 Log—us lateris unius 56 gr. 56 min. 16 sec.

30435 Aggregatum
1963 Log—us alterius lateris 78 gr. 41 min.

28472 Log—us anguli quæsiti 48 gr. 47 min.

Idem quoq; processus in tertio Exemplo observandus est.

14818 Log—us anguli dati 59 gr. 34/20//.
81148 Log—us lateris dati 26 gr. 22/20//.

95966 Aggregatum
26651 Log—us alterius lateris 50 gr.

69315 Log—us anguli quæsiti 30 grad.

8. Octavus Casus. *Datis obliquanguli Trianguli duobus angulis cum latere uni eorum opposito, Latus alteri angulo subtensum innotescit,* si Log—os Lateris & anguli dati adjacentis conjeceris in unam summam, & ab aggregato subduxeris Log—um anguli dato lateri oppositi: tunc enim remanebit Log—us Lateris quæsiti, dum tamen fuerit expressa affectio eius, sitné latus acutum vel obtusum: Nam si acutum est, Log—i arcus, vel si obtusum est, eius complementum ad Semicirculum exhibet Latus quæsitum. Veluti repetamus hîc oblata nostra tria Exempla, ubi in *primo* dati sunt duo anguli PUS 49 gr. 57 min. & angulus UPS 31 gr. 34 min. nec non Latus US, 40 gr. 0 min. quæraturq; Latus PS, angulo PUS oppositum, quod est acutum seu minus quadrantale.

44194 Log—us Lat. dati US, 40 gr. 0 min.
26725 Log—us Anguli adjac. PUS 49 gr. 57 min.

70919 Aggregatum.
64724 Log—us anguli UPS 31 gr. 34 min.

6195 Log—us Lateris quæsiti PS. 70 gr. 2/20//.

In *altero* Exemplo statuimus unum angulum 32 gr. 41/ 42 //. alterum angulum 48 gr. 47/. & Latus uni angulo oppositum 56 gr. 56/ 16//. quæraturq; alterum Latus, alteri angulo subtensum

17664 Log–us lat. dati 56 gr. 56/ 16//.
61588 Log–us Ang. adjac. 32 gr. 41/ 42//.

79252 Aggregatum
28472 Log–us ang. 48 gr. 47/.

50780 Log–us Lateris quæsiti 37 gr.

In *tertio* Exemplo assumpsimus priorem angulum 30 grad. posteriorem 59 grad 34/20//. cum Latere uni angulo subtenso 26 gr. 22/20// quæraturq; alterum latus.

81148 Log–us Lat. 26 gr. 22/20//.
14818 Log–us ang. adjac. 59 gr. 34/ 20//.

95966 Aggregatum
69315 Log–us anguli 30 grad.

26651 Log–us Lat. quæsiti 50 grad.

9. Nonus Casus. *Datis obliquanguli Trianguli duobus angulis cum latere uni eorum oppsito tertium angulum pervestigamus*, quando Log–us lateris dati & Log–us anguli alterius adjacentis in unum aggregantur numerum, tunc enim prodit Log–us perpendiculi ex angulo quæsito demissi : Huius arcus Antilog–us ablatus à datorum angulorum Antilog–is, relinquit Log–os duorum Elementorum anguli quæsiti à perpendiculo constitutorum: quorum vel summa vel Differentia efficit quæsitum angulum tertium, si perpendiculum intra vel extra cadat.

In *primo* Exemplo, datis duobus angulis PUS & UPS, nec non latere US, quæratur angulus PSU vel USP.

44194 Log–us Lat. US 40 grad.
26725 Log–us ang. PUS 49 gr. 57 min.

70919 Log–us perpendiculi 29 gr. 28/30//. cuius Antilog–us est 13861.

44090 Antilog–us anguli PUS 49 gr. 57 min.
13861 Antilog–us perpendiculi

30229 Log–us Elem. primi, cuius arcus est 47 gr. 39/ 24//.

16013

16013 Antilog–us anguli UPS 31 gr. 34 min.
13861 Antilog–us perpendiculi

2152 Log–us Elem. secundi, qui præbet arcum 78 grad. 9 min. 20 sec.

G.	M.	S.	
78	9	20	Elementum majus.
47	39	24	Elementum minus.
30	29	56	Angulus quæsitus USP.

In *secundo* Exemplo constituimus unum angulum 32 gr. 41/42//. & alterum angulum 48 gr. 47 min. Latusque uni angulo subtensum 56 gr. 56 min. 16 sec.

17664 Log–us Lateris 56 gr. 56/16//.
61588 Log–us anguli 32 gr. 41/42//.

79252 Log–us perpendiculi, qui exhibet arcum 26 gr. 55 min. cuius Antilog–us est 11466.

17249 Antilog–us anguli 32 gr. 41/42//.
11466 Antilog–us perpendiculi.

5783 dat Elementum primum 70 gr. 42 min.
41717 Antilog–us anguli 48 gr. 47 min.
11466 Antilog–us perpendiculi.

30251 Logus Elementi secundi 47 gr. 38/34//.

Gr.	M.	S.	
70	42	0	Elementum majus.
47	38	34	Elementum minus.
118	20	34	Angulus quæsitus.

In *tertio* Exemplo dati quoq; fuerunt anguli duo, unus 59 gr. 34/22//. alter 30 grad. cum Latere uni subtenso 26 gr. 22/20//.

81148 Log–us lateris 26 gr. 22/20//.
14818 Log–us anguli 59 gr. 34/22//.

95966 Log–us perpendiculi, qui dat arcum 22 gr. 31/18// cuius Antilog–us est 7933.

68044 Antilog–us anguli 59 gr. 34/22//.
7933 Antilog–us perpendiculi.

60111

14384 Antilog-us anguli 30 gr.
7933 Antilog-us perpendiculi

6451 dat Elem. secundum 69 gr. 38/30//.

G.	M.	S.	
69	38	30	Elementum majus.
33	14	36	Elementum minus.
102	53	6	Angulus tertius quæsitus.

10. Decimus Casus. *Datis in obliquangulo Triangulo duobus angulis, cum latere uni eorũ opposito, latus dictis angulis interjacẽs venamur,* si accipiatur angulus tertius secundum præcedens præceptum quæsitus, ejusq; Logarithmo addatur Log-us lateris dati, & ab Aggregato auferatur Log-us anguli, qui lateri dato subtenditur: Sic enim remanebit Logar-us lateris interpositi. E. g.

In *primo* Exemplo quærimus latus tertium UP interjectum inter ang. U & P. Datus autem fuit Lateris US Log-us 44194. & angulus UPS 30 gr. 27/45//.

67929 Log-us anguli USP 30 gr. 27/45//.
44194 Log-us Lateris US 40 gr.

112123 Aggregatum.
64724 Log-us anguli UPS 31 gr. 34 min.

47939 Log-us Lat. quæsiti UP 38 gr. 30 min.

In *secundo* Exemplo constituimus unum angulum 118 gr. 20/34// & alterum 48 gr. 47 min. cum latere 56 gr. 56/16//.

17664 Log-us Lateris 56 gr. 56/16//
12771 Log-us Anguli 118 gr. 20/34//.

30435 Aggregatum
28472 Log-us anguli 48 g. 47 min.

1963 Log-us Lateris 78 gr. 41/.

In *tertio* Exemplo datur unus angulus 102 gr. 53/30// alter 30 gr. 0 min. & Latus 26 gr. 22/20//.

81148 Log--us Lateris 26 gr. 22/20//.
2553 Log-us anguli 102 gr. 53/30//.

83701 Aggregatum.
69315 Log--us angul 30 gr.

14386 Log--us lateris 60 gr.

11. Unde-

11\. Undecimus Casus. *Si datis duobus angulis & latere interjacente, quæratur angulus tertius lateri dato oppositus,* tunc Log—um Anguli minoris & Log—um Anguli interjecti in unam conjice summam, ut relinquatur Log—us Perpendiculi: Posteà Perpendiculi Antilog—um aufer ab Antilog—o Anguli minoris, ut innotescat Log—us primi elementi illius Anguli, unde Perpendiculum est demissum. Dehinc, si hoc Elementum primum subducatur ab Angulo majore in gradibus ac minutis dato, vel etiam angulus ab Elemento primo, relinquetur Elementum secundum, cuius Log—o si adjiciatur Antilog—us Perpendiculi, prosiliet Antilog—us Anguli tertii quæsiti, vel excessus supra quadrantem.

Notes insuper, quod si Latus datum est majus quadrantale, tunc quoque Elementum anguli, quod illi respondet, est quadrante majus, & fit Triangulum Obtusangulum, & perpendicularis arcus eius cadet extra Triangulum. Si quoq; datorum angulorum alter est quadrante major, tunc latus datum debet esse quadrante minus.

In *primo* Exemplo hæc sese offerunt Διδόμενα: Angulus PUS major quadrante 130 grad. 3 min. Angulus minor UPS 31 gr. 34 min. Latus interjacens UP 38 gr. 30 min. Quæratur autem angulus tertius USP.

64724 Log—us Anguli minoris 31 gr. 34 min.
47399 Log—us Lateris interjacentis UP 38 gr. 30 min.

112123 Log—us perpendiculi, cuius Antilog—us est 5614 & arcus 70 gr. 58 min. 50 sec.

16013 Antilog—us anguli minoris
5614 Antilog—us Perpendiculi

10399 Elem. primum 64 gr. 19 min. 15 sec.

Gr.	M.	S.	
130.	3	0	Angulus datus PUS
64	19	15	Elementum primum
65	43	45	Elementum secundum.

9254 Log—us Elementi secundi
5614 Antilog—us perpendiculi

14868 Antilog—us anguli quæsiti 30 gr. 28/ ferè.

In *secundo* Exemplo datus est unus angulus 32 gr. 41/ 42// Angulus alter verò 48 gr. 47 min. cum Latere interjecto 78 gr. 41/ quæraturq; angulus tertius.

61588 Log–us anguli minoris 32 gr. 41/42//.
1963 Log–us Lateris interjac. 78 gr. 41 min.

63551 Log–us Perpendiculi, cuius Antilog. est 16464.

17249 Antilog–us anguli minoris.
16464 Antilog–us Perpendiculi.

785 Log–us Elem. primi.

G.	M.	S.	
82	49	50	Element. 1.
48	47	0	Angul. major
34	2	50	Element. 2.

58004 Log–us Elem. 2.
16464 Antilog–us Perpendiculi;

74468 Log–us Excessus Anguli quæsiti tertii supra quadrantem 28 gr. 21 min.

Ergo obtusus angulus est,

Gr.	Min.	
90	0	
28	21	
118	21	Angulus tertius quæsitus.

In *tertio* Exemplo Δεδόμενα sunt Angulus major 59 gr. 34/22//. Angulus minor 30 gr. Latus interjacens 60 grad. 0/.

69315 Log–us anguli minoris 30 gr.
14384 Log–us Lateris interjac. 60 gr.

83699 Log–us perpendiculi 25 gr. 30/30// cuius Antilog–us est 10381.

14384 AntiLog–us anguli minoris 30 gr.
10381 Antilog–us Perpendiculi

4003 Log–us Elem. primi 73 gr. 53/40//.

G.	M.	S.	
73	53	40	Element. 1.
59	34	22	Angul. major
14	19	18	Element. 2.

139685

159685 Log—us Elementi 2

10381 Antilog—us perpendiculi.

150066 Log—us Excessus anguli tertii quæsiti supra quadrantem 12 gr. 53 min.

Gr.	Min.
90	0
12	53
102	53

Angulus tertius quæsitus, ut in Casu 9.

12. Duodecimus Casus. *Deniq; datis in Obliquangulo Triangulo duobus angulis cum latere interposito, quæratur Laterum residuorum unum.* Hìc primum in promptu sit Angulus tertius ad Casum præcedentem 11. pervestigatus. Posteà lateris initio dati, & anguli lateri quæsito oppositi Log—os aggrega, & aggregato detrahe Log—um tertii anguli: sic enim relinquetur Log—us Lateris quæsiti. Veluti

In *primo* Exemplo datus est Angulus UPS 31 gr. 34 min. Latus UP 38 gr. 30 min & Angulus tertius ex præcedente Casu cognitus est 30 gr. 28 min. 30 sec: Quæratur autem Latus US.

47399 Log—us Lateris dati UP 38 gr. 30 min.

64724 Logus anguli UPS 31 gr. 34 min.

112123 Aggregatum

67892 Log—us anguli tertii 30 gr. 28 min. 30 sec.

44231 Log—us Lateris quæsiti US 40 grad. ferè.

In *secundo* Exemplo Διδόμενα sunt: Angulus tertius 118 gr. 21 min. Latus datum 78 gr. 41 min. & Angulus Lat. quæsito oppositus 32 gr. 41/ 42//. Quæratur autem Latus tertio angulo subtensum.

1963 Log—us Lateris dati 78 gr. 40 min.

61588 Log—us Anguli 32 gr. 41/42//.

63551 Aggregatum

12776 Log—us anguli 118 gr. 21 min.

50775 Log—us Lateris quæsiti 37 grad. ut habes in Casu octavo.

In *tertio* Exemplo datus est tertius Angulus 102 grad. 53 min. Latus interjacens 60 grad. & alter angulus 30 grad.

69315

69315 Log–us anguli 30 gr.
14384 Log–us Lateris dati 60 grad.

83699 Aggregatum
2550 Logus anguli tertii 102 gr. 53 min.

81149 Log–us Lateris quæsiti 26 gr. 26 minut. 20 secund.

Atq; hæc est omnis Trigonometria tàm Rectilineorum quàm Sphæricorum, quam certis quibusdam Casibus breviter inclusi. Quod si igitur ad hunc Calculum se studiosi Matheseos assuefecerint, nullum non Triangulum ad hunc applicare & ex eo solvere poterunt. Quod ut evidentiùs adhuc constet; placet in sequente Capite aliquot Problemata Astronomica subjungere, quæ ad normam Calculi Logar–orum promptissimè expediri queunt, ut Astrophili perspiciant, ex eo omnia necessaria depromenda esse.

CAPUT VIII. ET ULTIMUM primæ Sectionis.

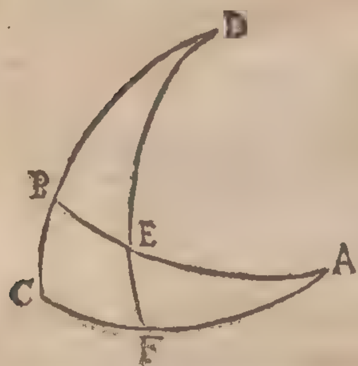
Sequitur igitur nunc usus Logarithmorum planè aureus in inquirendo omnium Stellarum motu, juxta doctrinam primi ac secundi Mobilis, Dispositionemq; cujuslibet Sphæræ, sive ea Recta, sive obliqua sit.

Esto igitur PROBLEMA PRIMUM.

1. D*Atâ Obliquitate Ecliptica ab Æquatore maxima, unà cum longitudine ab alterutro Æquinoctiorum, datur Declinatio & Ascensio Recta tali longitudini competens.*

De hoc Problemate egerunt *Ptolemæus lib 1. Magni Operis cap. 13 & 14.* atq; *Copernicus, lib. 2. Revolut. Cœlestium cap. 3.* Cum primis autem *Joannes à Regiomonte, lib. 1. Epit. Magnæ Composit. Ptolemæi proposit. 18.* necnon *Petrus Nonius in lib. de Crepusculis,* evidenteq;

evidenteq; demonstratione probàrunt eam esse proportionem Sinus totius ad maximæ declinationis sinum, quæ est Sinus arcus Eclipticæ ab alterutro Æquinoctio incepti ad Sinum declinationis puncti illius in Ecliptica, quod dictum arcum terminat. Cùm igitur & nos supra *cap. 3.* modum investigandi declinationem Solis attigerimus, breviter hìc saltem eum, proposito uno atque altero perspicuo Exemplo, repetemus. Itaque constitutis quadrantibus AC Æquatoris, AB Eclipticæ, DC & DF circulorum declinationum, qui Æquatorem ad angulos DCA & DFA Sphæræ rectos secant, perscrutanda sit Declinatio EF ex præcognita maxima Declinatione BC, quæ ex observationibus nobilissimi Tychonis nostris temporibus accommodata invenitur 23 gr. 32 min. proximè. Quamobrem per *primum casum Capitis sexti, de Solut. Triāgulorum Rectangulorum Sphæricorum*, tabulam quandam Declinationis, singulis Eclipticæ gradibus respondentem, sequente modo construere poteris.



Sit enim in priore Schemate maxima Declinatio Solis BC, 23 gr, 32 min. & AE in 0 gr. ♊, qui positus est distantia ☉ ab Æquinoctio verno & 60 gr. exæquat: Ergo datur arcus ED quæsitus.

91809 Log—us maximæ Declin. ☉ 23 gr. 32 min.
14384 Distant. ☉ ab Æquinoct. Verno 60 gr.

106193 Log. quæsitus, cui competit arcus Declinationis 20 gr. 13 min. 48 sec. Sept. eò quod Signum ♊ sit Septentrionale.

Aliter.

Vel constituatur punctum Eclipticæ in 5 gr. ♉ & proinde erit Elongatio eius ab Æquinoctio verno 35 gr.

91809 Log. Max. Declinationis ☉
55586 Log. 35 gr.

14[illegible] Log--us qui exhibet arcum Declin. ☉ 13 gr. 14 min. 18 sec. atque hæc est Declin. quæsita 5 gr. ♉ Borea, eò quod signum ♉ sit Boreum.

Nec est diversa operandi ratio in aliis, confectis Declinationibus unius Quadrantis: siquidem eædem Declinationes reliquis quoque quadrantibus competunt, modò etiam observetur ex præceptis Doctrinæ Sphæricæ, quod aliæ Declinationes in ♈. ♉ ♊ ♋. ♌. ♍. sint Septentrionales, aliæ in ♎ ♏ ♐. ♑ ♒ ♓. Australes.

Porrò ex iisdem datis elicitur quoque ASCENSIO RECTA cuiuslibet puncti in Ecliptica: Sunt enim hìc Διδόμενα in priore Schemate Latus A F 60 gr. Angulus B A C 23 gr. 32 min. Angulus BCA 90 gr. Rectus. Etiam datur AF Ascensio Recta quæsita. Operare enim *per Casum 12. cap. 6.* & sequ modo eam obtinebis.

54931 — Mesolog-us Lat. AE 60 gr.
8684 Antilog-us Max. Declin. ☉

46247 — Ergo datur AF 57 gr. 48 min. Ascensio scilicet Recta 0 gr. ♊.

Aliter.

Ponamus nunc Angulum B A C ad annum Christi 1600 fuisse 23 gr. 31 min. 30 sec. & Latus Eclipticæ 35 grad. in 5 grad ♉, & cupio investigare eius Ascensionem rectam.

35638 + Mesolog-us 35 grad.
8677 Antilog-us Max. Decl. 66 gr. 28/30//.

44315 + Mesolog-us arcus 32 gr. 42 min. qui est Ascensio R. quæsita 5 gr. ♉. Hunc si subduxero à Semicirculo, relinquitur Ascensio R. 25 gr. ♌.

Grad.	Min.	
180	0	
32	42	Asc. R. 5 gr. ♉.
147	18	Asc. R. 25 gr. ♌.

Si verò antè nominatam Asc. R. 5 gr. ♉ adjecero semicirculo, proveniet Asc R. 5 gr. ♏.

Grad.	Min.	
180	0	
32	42	
212	42	Asc. R. 5 gr. ♏.

Rursus si subtraxero priùs inventum arcum Asc. R ab integro Circulo 360 gr. sese sistet Asc. R. 25 gr. ♒.

Grad.

Grad.	Min.	
360	0	
32	42	
327	18	Asc. R. 25 gr. ♒.

Et hoc pacto facilè Tabula Ascensionum Rectarum construi potest, cujus ope datur punctum medii cœli, quo quælibet stella culminat, sicut eius usus ex Sphærica Doctrina innotescit, ut & ex sequentibus.

Eodem etiam modo datâ Eclipticæ Obliquitate maximâ atque Declinatione Solis per altitudinem meridianam sub certâ Poli Elevatione observatâ, datur quoque Locus Solis in Ecliptica tali Declinationi competens: modò altitudo Solis à Parallaxi & Refractione liberata. Hoc autem Exemplum, ut patet, est inversio prioris, ubi data est Declinatio Maxima, & Declinatio puncti Eclipticæ intermedii.

106193 Log—us arcus Declinat. 20 gr. 13 min. 48 sec.
91809 Log—us Maximæ Declin. Solis.

14384 Log—us Longit. ⊙ à verno Æquinoct. 60 gr. 0 min. Proinde ⊙ in principio ♊ hæsit. Poterit quoque idem Solis locus per specialem Declin. ⊙ Tabulam (qualis *lib. 1. Progymnasm.* à Tychone inserta est) expediri: nam uterque modus magnam præstat utilitatem in pervestigando vero Solis loco, ut postea videbimus.

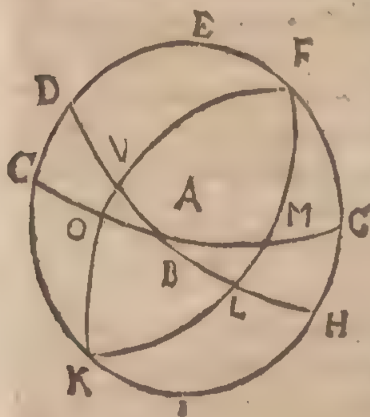
Problema Secundum.

1. *Datâ Declinatione, Ascensione Rectâ, Latitudine Loci & Amplitudine Ortivâ, datur quoq; Differentia Ascensionalis & Descensionalis, adhæc Arcus Semidiurnus, insuper Quantitas, Longitudoq; diei ac noctis, ex cognito motu Solis, & denique Ascensio, nec non Descensio Obliqua.*

De solutione huius Problematis agunt *Ptolemæus lib 2. cap. 2. Almagesti. Regiomontanus in Epitome eius lib. 2. propos. 23 & seq. Copernicus lib. 2. Revolut. cap. 7. & 8.* quos alii quoque Astronomi sequuntur. Hîc verò Astrophilus ex Sphærica Doctrina prius teneat necesse est, quid sit Differentia Ascensionalis, quid Amplitudo Ortiva, quid Latitudo seu Elevatio Poli, quidq; sibi velint alii termini, quorum notitiam

hic supponimus. Quamvis autem hoc Problema variis modis tractari queat, nos tamen in hac Pædia continuata contenti sumus unicè solutione eiusdem per Canonem Logarithmorum, secundum quem modum expediendum hoc Problema proponemus.

Esto igitur Schema ex Severino desumptum, ubi sit Meridianus integer CE HI, Horizon CBG, cuius Polus E, Æquator verò DBH cuius Polus F, Arcus vero CM Amplitudinem Ortivam seu Occiduam in Horizonte repræsentet: CB verò Quadrans Circuli est. Quocirca in Triangulo BML Rectangulo Διδόμενα sunt: MBL grad. 36 min. 30. Complem. Elevat. Poli Stetinens.



ML 13 gr. 14 min. 13 sec. Declinat. antè data 5 grad ♉.

BLM Angulus est 90 grad. Rectus.

Proinde dato latere ML cum Angulo opposito MBL datur etiam, *per casum quintum Capitis VI*, superioris Latus BM angulo Recto oppositum.

147395 Log-us Lat ML. Declinat. 5 gr. ♉. 13 gr. 14/18//.
51949 Log-us Compl. Elevat. Poli 36 gr. 30 min.

95446 Log-us cuius arcus est 22 gr. 38 min. 42 sec,

Amplitudo Ortiva Septentrional. crescens, eò quod Declinatio Septentrion. in vernis Signis accrescat.

Porrò in eodem Triangulo BLM Differentia Ascensionalis aut Descension. à latere BL determinari potest: Dantur enim jam in eodem Triangulo hæc tria.

1. Latus LM 13 gr. 14 min. 18 sec. Declin. 5 gr. ♉.
2. Angulus MBL gr. 36 min. 30. Compl. Lat. Stetin.
3. Angulus BLM 90 gr.

Ergo dato latere & angulo opposito, datur etiam *per Casum 15 Capitis 6. Solut. Triangulorum Rectangulorum Sphæricorum* reliquum Latus BL.

\+ 144708 Mesol. Declin. ☉ 13 gr. 14 min. 18 sec.
– 30116 Mesol. Elevat. Poli Stetinens. 53 gr. 30 min.

114592 Log-us Different. Ascensionalis 18 gr 32/16//.

At quia

At, quia jam conſtat de arcu amplitudinis Ortivæ, *idcirò ſecundum eundem Caſum 15*, ope eiuſdem Different. Aſcenſionalis exquiri poteſt, ſi videlicet Antilog–us Declinat. Solis ab Antilog–o Amplitudinis Ortivæ ſubtrahatur: Sic enim relinquetur Antilog–us Differentiæ Aſcenſionalis.

8022	Antilog–us Amplitud. Ortivæ 22 gr. 38 min. 41 ſec.
2693	Antilog–us Declin. Solis 13 gr. 14 min. 18 ſec.
5329	Antilog–us Differ. Aſcenſionalis in arcu 18 gr. 32 min. 16 ſec. ut ante.

Cæterùm, non quoque te, Aſtrophile, lateat, quod datâ Differentiâ Aſcenſionali & Aſcenſione Rectâ, ſimul inventa ſit Aſcenſio & Deſcenſio Obliqua, ſi videlicet Differentia Aſcenſionalis ſecundum ſubjectæ Tabulæ ſenſum Aſcenſioni Rectæ fuerit ritè applicata

Si Declinatio fuerit	BOREA	Deme	Differentiã Aſcenſional. Aſcenſioni R. & relinquitur quæſita	Aſcenſio	Obliqua.
		Adde		Deſcenſio	
	AVSTRINA	Adde	Different. Aſcẽſionalem Aſcenſioni R & relinquitur quæſita	Aſcenſio	Obliqua.
		Deme		Deſcẽſio	

Nam maneamus in noſtro Exemplo: Quia puncti in Ecliptica ad 5 gradum ♉ inventa eſt ante Aſcenſio Recta 32 gr. 42 min. & Different. Aſcenſionalis 18 gr. 32 min. Idcirco ad præceptum huius Tabulæ Aſcenſio & Deſcenſio Obliqua 5 gradus ♉ ita ſeſe habebunt.

Gr.	Min.	
32	42	Aſcenſ. R. 5 gr. ♉.
18	32	Different. Aſcenſ. 5 gr. ♉.
14	10	Aſcenſio Obliqua 5 gr. ♉.
51	14	Deſcenſio obliqua 5 gr. ♉

Atque talis invenitur etiam in Tab. Aſcenſionum & Deſcenſ. Obliquarum ad Elevat. Poli Stetinenſem, quæ extat *parte I. Ephemeridum, pag. 81.* & ex hiſce quoque fundamentis conſtructa eſt.

Quilibet etiam, qui iiſdem inſiſtit fundamentis, Tabb. Aſcenſionum ad acquirendum Ortum & Occaſum Siderum condere poterit.

Dehinc, cùm ex Sphærica Doctrina constet, quod arcus Æquatoris Semidiurnus à Meridiano in Horizontem, nempe à D in B numeretur, siqúe Declinatio Borea fuerit, semper Differ. Ascensionalis sit quadranti adjicienda, contra verò eidem demenda, ut emergat arcus Semidiurnus. Is arcus Semidiurnus duplicatus, & secundum *Tab. partis primæ Ephemeridum pag. 84.* in tempus horarium conversus ostendet quantitatem diei, quæ à 24 horis subtracta relinquit quantitatem noctis: Eadem quoque quantitas diei bisecta exhibet tempus Occasus Solis; quod subductum à 12 horis offert quoque tempus Ortus Solis, quod utrumque *ad præceptum Cap. VII. Partis I. Ephemeridum* ob refractionem Solis limitandum est, sicut ex hoc nostro proposito Exemplo patet. Differentia Ascension. 5 gr. ♉ exquisita est 18 gr. 32 min. E. Arcus Semidiurnus

Grad.	Min.	
90	0	
18	32	Differentia Ascensionalis.
108	32	Arcus Semidiurnus, qui duplicatus dat
108	32	
217	4	Arcum Diurnum, qui in tempus conversus efficit

horas 14, min. 28. quantitatem diei, & proinde quantitatem noctis 9 hor. 32 min. Quantitas verò diei bipartita relinquit 7 horas 14 min. Quibus si duo minuta temporis ob refractionem Solis addantur, emergit tempus oacasus Solis in nostro horizonte Stetinensi, quando ☉ in quinto gradu ♉ versatur 7 horar. 16 min. Rursus idem tempus à 12 horis subductum suppeditat tempus Ortus Solis

Hor.	Min.	
12	0	
7	16	
4	44	Tempus Ortus Solis ad diem $^{14}_{24}$ April. juxta Elevat.

Poli Stetinens.

Atque ita constare arbitror Demonstrationem huius Problematis, quod ad perquirendum Ortum & Occasum Stellarum apprime est utile & necessarium: Tu Astrophile diligens plura Exempla hisce adde; Ego præivi tibi, veluti te putem compendiosè operari debere, tu feliciter sequere.

PROBLE-

Problema Tertium.

3. D*Ata Latitudine & Longitudine Stellæ alicuius unà cum obliquitate Eclipticæ maximâ, eiuſdem tum Aſcenſionem Rectam, tùm Declinationem invenire, nec non Aſcenſionem Rectam & Declinationem Stellæ in Longitudinum atq; Latitudinem convertere.*

Quid ſit Latitudo, Longitudo, Declinatio, & Aſcenſio Recta Stellæ, ex Sphærica doctrina addiſcitur, quam Aſtrophilus, antequam ad hoſce labores progreditur, ſibi familiarem reddiderit neceſſe eſt: Sic enim eò faciliùs & feliciùs in Praxi horum Problematum verſabitur.

Aſſumamus hìc Schema ex *Severini libro 2 Sphæric. cap. 2 probl. 1.* in quo Longitudo Stellæ, nimirum Lucidæ in vertice capitis Arietis conſtituitur, in Arcu B N, ab initio ♈ & ad annum Chriſti completum 1640. ſecundum *Tabulam ſub lit. D part. 1. Ephemerid. pag 76.* inſertam, in 2 gr. 40/♉. & Latitudo Borea in N, O. 9 grad. 57/. Sintque in Triangulo Obliquangulo O E F hæc cognita:

1. E F diſtantia Polorum 23 gr. 32/.
2. O E, Complementum Latitudinis 80 gr. 3/.
3. Denique angulus O E F complementum Longitudinis Stellæ ab Æquinoctio Verno 57 gr. 20/.

Quamobrem *per Caſum tertium cap. 7.* innoteſcit primùm F O, complementum Declinationis Lucidæ ♈ in O L exhibens. Operatio igitur talis eſt per Logarithmos:

91809 Log—us Lateris minor. 23 gr. 32/
17218 Log—us Anguli comprehenſi.

109027 Log—us perpendiculi in Latus majus, 19 grad. 38/30//. ferè.

Rurſus

Rursus.

8684 Antilog–us Lateris minoris.
5995 Antilog–us perpendiculi.

2689 dat Arcum 76 gr.46/20//, cuius complementum 13 gr. 13/40// est Elementum primum,

Gr.	M.	S.	
80	3	0	Latus majus.
13	11	40	Elementum primum.
66	51	20	Elementum alterum.

93382 Antilog–us Elementi alterius
5995 Antilog–us perpendiculi.

99377 Ergo datur Antilog–us Lateris quæsiti FO, 68 gr.16/24// cuius complementum in OL 21 gr. 43/36// est Declinatio Lucidæ ♈ quæsita,

Investigatâ jam Declinatione Stellæ, quoniam in eodem Triangulo FEO omnia tria Latera sunt cognita, dabitur etiam per *Casum 1. cap. 7.* apud Arcum Æquatoris DL, â Coluro Solstitii æstivi numeratum, â quo in hoc casu Quadrante circuli DB remanet Arcus BL Ascensio Recta Lucidæ in capite ♈. Διδόμενα igitur hæc sunt 1. EF Crus minus, 23 gr. 32/ distantia Polorum,

2. FO Crus majus 68 gr.16/24//. Complementum Declinationis Stellæ

3. EO Basis 80 gr.3/. Complementum Latitudinis Lucidæ ♈. Ergo et jam per *Casum 1. cap 7* datur Angulus EFO, basi oppositus.

Operatio.

7369 Log–us Cruris FO 68 gr.16/24//.
91809 Log–us Cruris minoris 23 gr.32/.

99178 Summa Log–orum Crurum,
Crus majus FO 68 gr. 16/24//.
Crus minus EF 23 gr. 32/ 0//.

Different.	44.	44	24
Semidiff.	22	22	12

Basis

Basis F.O	80 gr.	3/	0//.		
Semibasis	40 gr.	1/	30//.		
Semidifferentia crurũ	22 gr.	22/	12//.		
Aggreg.	62	23	42	Log—us ejus	12086
Different.	17	39	18	Log—us ejus	119305
					131391
				Summa Log. crurum	99178
				Duplum Log—rum	32213
				Bissectum	16106 Dat

Arcum	58 gr.	20/	50//.
	58	20	50
	116	41	40

Datur igitur Angulus quæsitus F.FO in Æquatore à Solstitio hiberno, qui exprimitur per arcum D. L. Itaq; subducto Quadrante à dicto arcu relinquitur Adscensio Recta quæsita Lucidæ ♈.

Gr.	M.	S.
116	41	40
90		
26	41	40

A. R Lucidæ in vertice capitis ♈, qualis etiam ad hunc annum elicitur ex *Tabula sub lit H Ascensionum & Declination. Fixarum*, quæ exstat *part 1. Ephemerid pag.85*.

Exemplum secundum esto dexter seu orientalis humerus Lucidus ♒, cujus datur ad annum præfatum 1649. *in Tabula D part.1. Ephemerid.pag.79.* Longitudo Gradu.28,23/30// ♒ sistaturq; ea in eodem schemate sub O, & Latitudo in NO apud Eclipticam 10. gr. 42/Borea. Ex hiscæ quæratur primum Declinatio L O: deinde L in Æquatore Ascensionem Rectam ejusdem stellæ determinet, ita ut in Triangulo O I K concessa sint 1. latus I K 23. grad. 32/2//. Latus I O 100. grad 42/Aggregatum Latitudinis & Quadrantis 3. & deniq; Angulus O I K 58. gr. 23/30// distantia stellæ ab initio ♑, & etiam innotescet Latus K O & complementum ejus L O.

91809 Log—us lateris minoris 23.gr.32/.
16058 Log—us Anguli comprehensi 58. gr.23/30//.

107867 Log–us perpendiculi in latus majus 19.gr.52,'50//.
Rursus 8684 Antilog–us lateris minoris.
6145 Antilog–us perpendiculi 70.gr. 7/10//.

2539 Dat Arcum 77.grad. 8/ 30//. Cujus complementum 12.gr. 51/30// est Elementum primum.

Gr.	Min.	Sec.	
100	42	0	Latus majus.
12	51	30	Elementum primum.
87	50	30	Elementum alterum.

327913 Antilog–us Elementi alterius.
6145 Antilog–us Perpendiculi.

334058

E. datur Antilog–us L O 2.gr.1/50//. Proinde Declinatio quæsita Meridionalis dextri humeri ♒ est 2 gr. 2/.

Pro Ascensione verò Recta ejusdem hæc data sunt tria latera: 1. KI 23 gr.32/ distantia polorum, 2. Latus L O 87 gr. 58/10// complementum declinationis, 3. Latus I O Latitudo stellæ & Quadrans aggregata 100 gr. 42/. Ergo datur etiam O K I angulus, qui arcum H L describit in Solstitio Æquatoris æstivo.

91809 Log. cruris K I.
63 Log–us cruris 87 gr.58/10//.

91872 Summa Log–rum crurum.

	Gr.	Min.	Sec.	
Crus majus	87	58	10	
Crus minus	23	32	0	
Different.	64	26	10	
Semidifferentia	32	13	5	
Basis I O	100	42	0	
Semibasis	50	21	0	
Semidifferent.	32	13	5	
Aggreg.	82	34	5	Log–us ejus 844
	18	7	55	Log–us ejus 116730

117574 Sūma Log–rum.
91872

91872 Summa Log-rum crurum.
25702 Duplum Logrum.
12851 Log-us bissectus, qui dat arcum 61 gr. 34/ isquè duplicatus exhibet angulum, qui arcum KL definit.

61	34	
61	34	
123	8	
G.	M.	S.
360	0	0
90		
450		
123	8	
326	52	

326 52 Ascensio R. dextri humeri ♒ ad Annum Christi 1640. qualis etiam proximè colligitur *ex tabula H part 1. Ephemerid. pag 88.*

Quicunq: autem Astrophilus ocio abundaverit, ille secundum hoc problema ad illustrandam rem Astronomicam, nevé semper hac in parte tædiosâ ac longâ supputatione opus sit, Tabulam generalem construere poterit, ex qua per Declinationem utrinq; ab Æquatore 32 gradus excurrentem, atq; Ascensionem Rectam singulorũ graduum, per omnem Æquatoris ambitum competentem Longitudinem ac Latitudinem cujusvis stellæ subitò scrupulosè, non saltem in gradibus, sed & scrupulis primis atq; secundis, ei eruere liceat, suppositâ eâ hujus seculi obliquitate maximâ Æquatoris atq; Eclipticæ 23 gradum 31 minutorum. Siq; igitur fuerint apud nos sideralis scientiæ Studiosi, qui de ea bene velint mereri, atq; hunc laborem subire, iis libenter præibo, & sicubi hæsitaverint fidelem porrigam dextram, eorumq; liberale cœptum, quantum potero, proveham. Quamvis enim olim Tycho per suos Alumnos hujusmodi Tabulam condiderit, sicut ipsemet testatur *lib. 1. progymnasmat. p. 215.* & *lib. 1 Epistolar. Astronomicar. pag. 9.* Ut & *Severinus*, per decennium ferè domesticus ejus, *loco dicto*, tamen ea publicam lucem nondum vidit, & haut dubiè periit. Sciendum etiam est, quod exactius ex Longitudine & Latitudine stellæ Ascensio Recta & Declinatio pervestigari possint, quàm viceversa: Sæpe enim nimis obtusus, vel etiam nimis acutus, est unus angelus vel Latus, & subtilitatem illudit, præsertim ubi non semper scrupula secunda attenduntur, sicut ex conversione hujus Problematis patet,

ubi à Longitudine & Latitudine stellæ sæpe quinq;,quandoq; etiam plura minuta,absorberi poterunt.

In priore enim schemate & Triangulo E F O pro Longitudine stellæ prope N in Ecliptica dantur 1. E F 23 gr. 32/ distantia polorum. 2. F O 80 gr.3/ complementum Latitudinis stellæ. 3. F O grad.68, min.16. sec. 24. datur itaq; & angulus F E O.

91809 Log—us lateris minoris 23 gr.32/.
1515 Log—us E O.
93324 Summa Log—rum crurum.

	Gr.	M.	S.
Crus majus	80	3	0
Crus minus	23	32	
Differ.	56	31	
Semidiff.	28	15	30
Basis	68	16	24
Semibasis	34	8	12
Semidiffer.	28	15	30
Aggregat.	62	23	42
Differ.	5	52	42

12085 Log—us Aggregati.
227875 Log—us differentiæ.
239960 Summa Log—rum.
93324 Summa Log—rum crurum.
146636 Duplum Log—i.
73318 Log—us bissectus,cujus arcus est

Gr.	M.	S.
28	42	40
28	42	40
57	25	20

Angulus Elongationis in Ecliptica à solstitio Æstivo,unde subductus à Quadrante,relinquit Longitudinem Lucidæ ♈ à primo puncto Verni Æquinoctii.

G.	M.	S.
90	0	0
57	25	20
32	34	40

℞. datur Lucida in vertice ♈ in 2 gr. 35/ ♉ deficiunt autem 5/. ob dictam causam.

Sic ad Latitudinem ejusdem stellæ investigandam datur primùm crus E F. grad. 23. min. 32. Distantia polorum. 2. Crus F O, 68 gr. 16/24//. complementum Declinationis Lucidæ ♈. 3. Angulus E F O grad. 116. 41/40// distantia Lucidæ ♈ in Æquatore à solstitio hiberno. Proinde datur etiam Latus E O complementum Latitudinis stellæ ipsaq; Latitudo O N.

91809 Log—us Lateris minoris 23 gr. 32/.
11270 Log—us anguli comprehensi 116 gr. 41/40//.

103079 Logarithmus perpendiculi in latus majus 20 gr. 54/.
8684 Antilog—us lateris minoris.
6866 Antilog—us perpendiculi.

1818 Arcus 79 gr. 6/ 30//. Cujus complementum est 10 gr. 53/30//. Elementum primum.

G.	M.	S.	
68	16	24	Crus majus.
10	53	30	Elementum primum.
79	9	54	

167141 Antilog—us Elementi alterius.
6866 Antilog—us perpendiculi.

174007 Log—us Latitudinis quæsitæ, quæ invenitur 16. gr. 6/. redundantibus ferè 9 minutis, propter angulũ obtusum. Unde si omnia, etiam in minimis, attenduntur, hoc est, in scrupulis secundis, propiùs aliquis ad scopum collimabit. Quod hîc obiter monuisse sufficiat.

Verùm enim verò, ut Latitudo in debito puncto constet, præferendus est modus Tychoni familiaris, qui hoc Triangulum Obliquangulum in duo Rectangula resolvit, ita ut prius sit Triangulum in nostro schemate N B M, ubi cognitum est latus B N, Adscensio Recta Lucidæ ♈ ante data 26 gr. 41/20//. Cui in Tabula Adscensionum Rectarum 28 gr. 44/ ♈ respondent, Latus B M repræsentet maximam Declinationem Solis, quæ est 23 gr. 31/30//. Ergo per *Casum 12. cap. 6.* non latebit Angulus ad M qui est Angulus intersectionis Eclipticæ & Meridiani.

83165 Mesolog—us Declin. max. ☉
13140 Log—us distantiæ à primo puncto ♈ 28 gr. 44/.

96305 Mesolog—us —— qui exhibet Angulum ad M 69 gr. 7/.

 Deinde

Deinde in posteriore Triangulo O L N, acquiritur latus O L ex subtractione P L ab O P. Declinatio enim puncti 28. gr. 44/ ♈ est 11. gr. 3/ 45//. Declinatio v. Lucidæ ♈ inventa est 21 gr. 43/ 36//. Igitur latus O L prodit 10 gr. 39/ 51//. Hinc per *casum 5. Cap.* 6. Latus quoq; O N cognoscitur, quod est Declinatio quæsita.

168714 Log—us lateris O L 10 gr. 39/ 51//.
6795 Log—us anguli Eclipticæ & Meridiani 69 gr. 7/.

175509 Log—us lateris O N Latitudo stellæ quæsita 9 gr. 57/. quæ exactè cum data congruit.

Hisce jam præcognitis datur quoq. Longitudo stellę per *casum 8. cap. 6.* & primum quidem Latus L N.

1742 Antilog—us lateris O L 10 gr. 39/ 51//.
1516 Antilog—us lateris O N 9 gr. 57//.

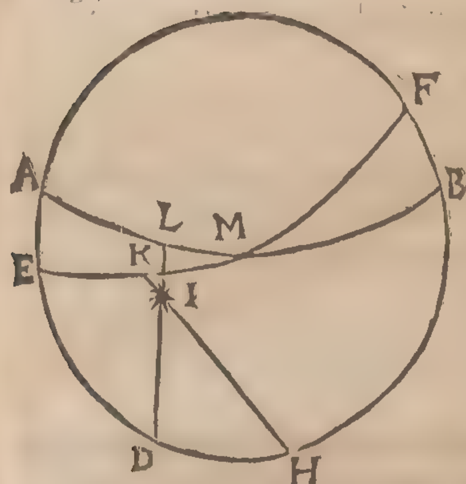
226 Antilog—us lateris L N 3 gr. 51/. Differentia scilicet inter Longitudinem stellæ in N & punctum cœli Mediationis in L. Si itaq; addatur arcus L N ad gradus 28 min. 44 ♈ provenit locus Longitudinis Lucidæ in vertice ♈ in 2 gr. 35 ♉ quemadmodum & paulò antè talis investigata est. Hic modus proximè ad scopum collimat, nec ultra unciam gradus in Longitudine aberrat: in Latitudine autem rem acu tangit. Hinc & exempla frequentissima ad hunc solutionis modum spectantia apud Tychonem *lib. 1. atque 2. Progymnasmat.* occurrunt.

Appendix duorum Corollariorum.

I.

Ut autem hic modus pervestigandi Longitudinem Stellæ Astrophilo fiat commendatior, placet huic problemati primi Corollarii loco apponere exemplum, quod habet Tycho, *lib. 1 progymnasm. Astron. pag 218.* in spica ♍, cujus Longitudinem ex data ejus Latitudine & declinatione præfinit. Affert enim ibidem tale schema, in quo datur Triangulum D H I, cujus dantur tria latera.

1. Latus



1. Latus D H. diſtantia polorum Eclipticæ & Æquatoris, 23 gr. 31/ 30//.

2. Latus H I, complementum Latitudinis ſtellæ, quod à diſtantia ejus à corde ♌ & ſtellula Draconis adinvenit 88 gr. 1/.

3. Latus D I, complementum Declinationis Spicæ ♍, quod circa initium Anni 1586. ex poli altitudine Uraniburgica Meridianaq; altitudine ſpicæ ♍ perquiſivit 81 gr. 3/ 40//. His tribus ita ſe habentibus, per Triangularem ſupputationem Angulum I H D accepit 71 part 56/. 35//. qui menſurat diſtantiam ſpicæ ♍ à Tropico hiberno in Ecliptica. Faciamus itaq; periculum, an noſter calculus cum eo conſentiat.

		o	/	//
91842	Logarithmus lateris minoris	23	31	30.
60	Log—us lateris majoris H I. 88 gr. 1/.			
91902	Summa Log—rum crurum.			

	G.	M.	S.	
Crus majus	88	1		
Crus minus	23	31	30	
Differ.	64	29	30	
Semidiff.	32	14	45	
Baſis	81	3	40	
Semibaſis	40	31	50	
	32	14	45	
	72	46	35	Log—us ejus 4588.
	G.	M.	S.	
Differentia	8	17	5	Log—us ejus 193730.

Summa Loga—rum	198318
Summa Log. crurum	91902

Duplum

Duplum Logarith. 106416
Log—us bissectus. 53208 qui dat arcum 35 gr. 58/17//.

G.	M.	S.	
35	58	17	
35	58	17	
71	56	34	Angulus I H D ferè idem, quem & Tycho invenit, qui mensurat distantiam spicæ ♍ à Tropico brumali, qua de Quadrante sublatâ ipsius ab Æquinoctio autumnali remotio secundum longitudinem Eclipticæ innotescet.

90		
71	56	34
18	3	26

Ergo data est Longitudo spicæ ♍ ad initium anni 1586 in 18 gr. 3/26//. ♎, quæ fuit Aristæ Longitudo à Tychone ad tempus dictum reperta.

II.

Datâ Latitudine & Declinatione Stellæ Angulus quoq; Tertius, cui distantia polorum opponitur, patefit. Repetamus enim hîc primum nostrum Schema, in cujus Triangulo obliquangulo OEF dati sunt duo anguli cum latere intercepto.

I. Angulus F E O, 57 gr. 20/. antea datus est.
II. Angulus E F O, 116 gr. 41/40//.
III. Latus ab angulis comprehensum E F, 23 gr. 32/.

17218	Log—us Anguli minoris 57 gr. 20/.
91809	Log—us Lateris intercepti 23 gr. 32/.
109027	Log—us perpendiculi in latus majus 19 gr. 38/30//.
61665	Antilog—us anguli minoris.
5995	Antilog—us perpendiculi.
55670	Elementum primum 34 gr. 58/.

G.	M.	S.	
116	41	40	Angulus major.
34	58	0	Elementum primum.
81	43	40	Elementum secundum, cujus Log—us 1046

Antilog. perpendiculi. 5995

7041 Antilog—us anguli quæsiti ad O 21 gr. 15/. per praxin *Casus 11. cap. 7.*

Conse-

Consectarium hujus Corollarii geminum.

1. Ex cognitis hisce tribus angulis, *per Casum 12. cap. 7.* sequitur, quod etiam facilè possint investigari Latus F O complementum Latitudinis, & Latus F O, complementum Declinationis stellæ; non quidem adeo præcisè, intra tamen Latitudinem unius gradus, hoc pacto.

91809 Log-us lateris F F. 23. gr. 32/.
17218 Log-us anguli F F O 57 gr. 20/.
109027 Aggregatum Log-rum,
101490 Anguli tertii ad O Logarithmus.
7537 Dat Arcum 68 gr. 2/. complementum Declinationis Lucide in vertice ♈ κατὰ πλάτος.

Rursus 91808 Log-us lateris F F.
11270 Log-us anguli majoris 116 gr. 41/40//.
103079 Aggregat. Log-rum.
101490 Anguli tertii Log-us.
1589 Dat arcum 79 gr. 48/40//. qui est complementum Latitudinis Lucidæ ♈ F O.

Atque ita patere arbitror, quomodo datâ Longitudine & Latitudine Stellæ ejus quoq; Ascensio Recta, declinatio, & Angulus cui distantia polorum opponitur inquirantur, nec non quomodo duobus ex iis datis reliqua quoque pervestiganda sint.

2. Datâ jam Ascensione Rectâ Stellarum, datur quoq; tempus, quo Stella per Meridianum loci transit. Subtractâ enim Adscensione Rectâ Solis ab Adscensione Rectâ Stellæ, relinquitur Arcus horarius in gradibus atq; minutis, ex quo tempus determinari potest, quo Astrum Meridianum loci attinget.

Exempli gratia proponatur tempus transitus Lucidæ ♈ per Meridiem ad diem 1. Novembris Styl. Vet. Anno Christi 1640. Sol tunc in Ephemeride nostra hujus anni ac diei invenitur positus in 19 gr. 37/ ♏ cujus Adscensio Recta elicitur 227 gr. 9/ inventa autem est in hoc problemate, Adscensio Recta Lucidæ ♈ 26 gr. 42/. Subtracta igitur illâ ab hac, relinquit arcum Æquatoris inter Solem & stellam in tempus convertendum.

Gr.	M.	S.	
386	42	o	Adſcenſio R Lucidæ ♈
227	9	o	Adſcenſio R 19° 17′ ♏
259	33	o	Qui arcus dat 10 horas 38 minuta.

Ergo die 1. Novembris Anno Chriſti 1640. Sedini Pomeran. Lucida ♈ culminabit circiter horam 10. minuta 38 veſpertinam.

Aliud Exemplum.

Eodem quoque modo tempus tranſitus dextri humeri ♒ per noſtrum Meridianum inquiri poteſt, cujus Adſcenſio R. itidem ſupra data eſt 326. grad. 52′.

Gr.	M.	
326	52	A R dextri humeri ♒.
127	9	A R ☉lis.
199	43	Hic arcus æquatoris exhibet 6 horas 49 minuta.

Cùm igitur ☉ die 1. Novembris Palæo Sedini Pomeran. occidat hora 4. minut. 20 Igitur dexter humerus ♒ elapſis duabus horis & 19 min. poſt occaſum ☉ culminabit.

Quando nunc Aſtronomus diligenter in ſuo loco lineam Meridianam per ductum Cynoſuræ non nimis ad latera declinantis inveſtigavit, videtq; Stellam aliquam notam Meridianum tangere, poterit ex cognita ejus Adſcenſione Recta tempus noctis exactè præfinire, & de die ex tranſitu ☉ per hanc lineam Meridiem decernere, cujus uſus in obſervationibus Aſtronomicis eſt ampliſſimus.

PROBLEMA QUARTUM.

4. *Datâ obliquitate Eclipticæ maximâ, unà cum Longitudine, non ignorabitur primùm Angulus Interſectionis Eclipticæ cum Meridiano, ſeu circulo Declinationis; deinde etiam pateſcet arcus Latitudinis interceptus inter Eclipticam & Æquatorem; adhæc notâ Declinatione Longitudinis datæ, & altitudine Æquatoris loci alicujus, dantur quoq; Angulus Meridiani cum Horizonte, necnon Angulus Eclipticæ & Horizontis ad altitudinem Solis atq; reliquarum Stellarum indagandam perutilis.*

Trans

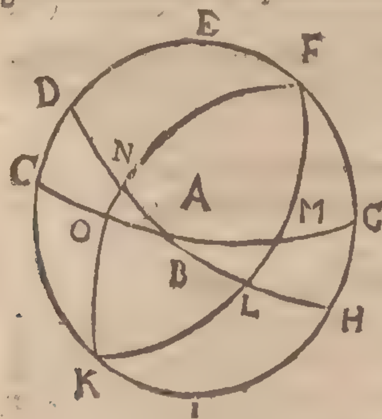
Transferatur huc antecedens Schema, in quo datur Triangulum B L P, cujus primum Angulus ad B eſt cognitus 23 gr. 31/λοξώσις Eclipticæ maxima. 2. Latus B L Longitudo Solis in Ecliptica in o gr. ♊, & 3. Angulus ad P, rectus 90. grad. Ergo per *Caſum 12. cap. 6. præced.* datur quoque angulus ad L.

69315 Antilog—us lateris B L.
83125 + Meſolog—us anguli ad B.
152440 — Meſolog—us Anguli ad L 77 gr. 43/. Angulus interſectionis Eclipticæ & Meridiani quæſitus.

Deinde datâ obliquitate Eclipticæ unà cum Longitudine, datur etiam arcus Latitudinis interceptus inter Eclipticam & Æquatorem. Triangulum enim illud in priori diagrammate exprimi poteſt per B N M, ubi latus B N datum eſt 60 gr. o/. Angulus N B M grad. 23. 32/. Itaq; per *Caſum 13. cap. 6.* quum angulus ad B N M ſit rectus, datur quoq; latus N M.

14384 Log—us lateris B N.
83125 + Meſolog—us Anguli ad B.
97509 + Meſolog—us lateris N M. 20 gr. 40/. Arcus Latitudinis inter Eclipticam & Æquatorem quæſitus.

Inſuper etiam per unam Proſthaphæreſin Angulus circuli Declinationis. ſeu Meridiani cum Horizonte, ſi non tantùm Declinatio datæ Longitudinis, ſed & complementum Elevationis poli dentur, latere nequit.



Etenim in appoſito ſchemate conſideretur Triangulum M B L, in quo angulus ad B ſit 36 gr. 30/. complementum Elevationis poli Stetinenſis: Deinde detur Latus M L declinatio Puncti Longitudinis Eclipticæ o gr. ♊ ſeu 60 gr. elongationis à o ♈ 20 gr. 13/ 50//. Proinde datur etiam per *Caſum ſeptimum Capitis 6. de Triangulis Sphæricis rectangulis*, angulus adjacens ad M: angulus enim ad L eſt rectus.

21833 Antilog—us Altitud. Æquatoris ſeu anguli ad B.
6368 Antilog—us lateris oppoſiti L M.
15465 Log—us anguli adjacentis ad M. 58 gr. 57/ qui eſt angulus circuli Declinationis ſeu Meridiani cum Horizonte.

Deniq; exquisito angulo Eclipticæ cum Meridiano, nec non angulo Meridiani cum Horizonte, non potest esse obscurus angulus Eclipticæ & Horizontis; Quippe, si angulus Eclipticæ & Horizontis est Orientalis, hoc est, in Orientali plaga constitutus, sitq; in semi circulo Eclipticæ deprimente, qui complectitur sex illa signa ♋ ♌ ♍ ♎ ♏ ♐, tunc angulum Eclipticæ cum Meridiano, & angulū Meridiani cum Horizonte in unam conjice summam, hanc summam aufer à semicirculo, & residuus arcus erit angulus Eclipticæ ac Horizontis desideratus. Quando autem punctum Oriens constituitur in altera semicirculi Eclipticæ parte attollente, quæ continet signa sex ♑ ♒ ♓ ♈ ♉ ♊, tunc angulus Meridiani cum Horizonte auferendus est ab angulo Eclipticæ cum Meridiano, & extemplò prodit quæsitus angulus Eclipticæ & Horizontis. Contraria verò operatio observetur, si angulus Elipticæ & Horizontis fuerit Occidentalis.

Hoc loco, quia angulus Eclipticæ & Horizontis statuitur esse Orientalis, signumq; illud versatur in semicirculi parte attollente, idcirco ad posteriorem modum fiat operatio, hoc pacto.

Gr.	M.	S.	
77	43	0	Angulus Eclipticæ cum Meridiano.
58	57	0	Angulus Meridiani cum Horizonte.
18	46		Angulus Eclipticæ & Horizontis Orientalis in

0 gr. ♊ ad Latitud. 53. gr. 30/.

Quod si angulus ille foret Occidentalis, tunc operatio ita instituenda, quasi versaretur in 0 gr. ♐, nimirum in semicirculo deprimente.

Gr.	Min.	Sec.	
77	43	0	Angul. Eclipticæ cum Meridiano.
58	57	0	Angulus Meridiani cum Horizont.
180			Semicirculus.
136	40		Aggregatum subtr. à semicirculo.
43	20		Angulus Eclipticæ & Horizontis in 0 gr. ♊

Occidentalis, ad Latitudinem 53. gr. 30/. Confert autem inprimis hoc problema ad Altitudinem ☉lis vel alterius cujusdam Stellæ in Horizonte cognoscendam. Dato enim hoc angulo & distantia stellæ à puncto Orientis, levi opera altitudo ejus obtineri potest; veluti hoc in seq. problemate ostendam.

PROBLE-

PROBLEMA QUINTUM.

5. *DAto Angulo intersectionis Ecliptica & Horizontis, nec non distantia Stellæ à puncto Orientis vel Occidentis, datur quoque Altitudo Stellæ: vel etiam datâ Declinatione Solis, Latitudine Loci, & momento temporis in horis ac minutis datur etiam Altitudo Stellæ. Sic è contrario observatâ altitudine Stellæ, si insuper de Elevatione poli Loci & Declinatione Stellæ constiterit, innotescit tempus horarium ante vel post meridiem, prout Stella in plaga Orientali vel Occidentali observata fuerit.*

Duplex igitur modus est indagandi altitudinem Stellæ: Prioris fundamenta in præcedente problemate jacta sunt. Dato enim angulo Eclipticæ & Horizontis nec non distantiâ Stellæ à puncto Orientis vel Occidentis, facilè per *Casum 1. cap. 6.* ipsa altitudo Stellæ inveniri potest. Veluti repetamus ex præcedenti problemate exemplum, ubi angulus Eclipticæ & Horizontis in 0 gr. ♊ est constitutus, quem jam in Occidentali plaga statuamus, cujus angulus inventus fuit 43 gr. 20/. Sol verò tunc versetur in 0 gr. & cardinali puncto ♋, sitq; per unam horam & 43 minuta ab occasu remotus, perque arcum triginta graduum. Proinde datur

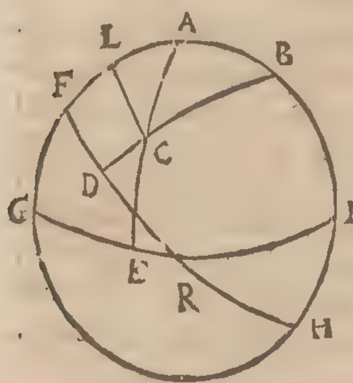
37653	Log—us Anguli Eclipticæ & Horizontis 43. 20.
69315	Log—us distantiæ ☉ ab Horizonte occiduo 30 gr.
106968	Log—us arcus 20 gr. 40/. qui ostendit altitudinem Solis eo tempore, sub Elevatione poli 53 gr. 30/.

Aliud Exemplum.

Anno Christi 1625. die 28. Maji Styl. Vet. feria VII. Sedini Pomeranorum, hora 7. matut. minut. 30. quatuor Parelia circa Solem verum conspecta sunt. ☉ tunc exstitit ad Tabulas Tychonicas in 16. gr. 27/ ♊. Expeto scire altitudinem ejus ad datum tempus. Quamobrem juxta Præceptum hoc & præcedens primò in promptu sit Oriens punctum, quod hîc invenitur in 3 gr. 49/ ♌. Unde Sol distat ab hoc puncto per 47 gr. 22/. Declinatio Septentrionalis hujus puncti Orientis invenitur 19 grad. 22/25//.

Angulus Eclipticæ & Meridiani 76 gr. 22/30//. Angulus verò Meridiani cum Horizonte 58 gr. 26/30//. Quamobrem ex iis non obscurus erit angulus Eclipticæ & Horizontis, qui præcisè datur 45 gr. 11/. Atq; inde emergit altitudo Solis quæsita 31 gr. 27/.

Posterior modus inquirendi eandem Altitudinem absolvitur per solutionem Trianguli Sphærici obliquanguli, quod cadit *in Casum tertium capitis VII.* ubi dantur duo latera cum angulo comprehenso, investigaturq; tertium latus angulo oppositum. Cùm igitur hic modus non sit adeo operosus atq; prior, hocq; problema maximum usum obtineat in indaganda altitudine Luminarium tempore Eclipsis Solaris, sicut ex secunda sectione hujus Pædiæ patebit: Idcirco hujus modum quoq; breviter per summa capita percurrentes subjiciemus. Sit in proposito Schemate Meridianus integer ABIHG, Horizon IG, cujus polus A: Æquator FH, cujus polus B; Elevatio poli IB, cujus complementum est IH, eiq; æqualis sit arcus FG, Declinatio verò Solis sumatur in FL. Proinde Longitudo Solis in Cinventa est in 16 gr. 27/ ♊, ejusq; Declinatio per *Problema I.* 22 gr. 50/. Sitq; GL altitudo Solis. Quocirca in Triangulo ABC Dantur duo latera: I. Latus AB 36 gr. 30/ distantia polorum. II. Latus BC 67 gr. 10/. complementum Declinationis. III. Angulus B interceptus, qui denotat tempus à Meridie, horas 4. minuta 30. seu gradus Æquatoris 76. 30. minuta. Ergo etiam dabitur Latus AC ejusq; complementum, quod altitudinem Solis indicat, per *Casum 3. cap. 7.* Si igitur rectè operatus fueris prodibit Log—us altitudinis Solis 65066. qui dat. 31 gr. 27/. Altitudinem ☉ quæsitam, ut antè.



Rursus ex observata Altitudine Stellæ, Declinatione ejus, & Latitudine loci, si quis elicere velit tempus observationis in horis & minutis, in eodem Triangulo ABC. habet cognita tria latera AB, BC, & AC; unde quoq; per *Casum 1. cap. 7* dabitur ABC seu arcus DF Lateri AC oppositus. E.g. Anno Christi 1633 die 29 Martii, Styl. Vet. feria 6. cùm conspiceretur Sedini initium Eclipsis Solaris, observavi altitudinem Solis post meridiem cum Qvadrato Geometrico, 21 gr. 18/. ☉ tunc versabatur in 19 gr. 5/ ♈. Ergo ex seqq. διδωμένοις patebit tempus horarium observationis.

AB. da-

A B, datur 36 gr. 30/ diſtantia polorum Horizontis & Æquatoris. B C, gr. 82. min. 30. ſec. 35. Complementum Declinationis Solis. A C 68 gr 49/. Complementum altitudinis Solis à parallaxi & refractione liberatæ. Ergo Angulus A B C ſeu Latus D F invenitur 64 gr. 9/. qui arcus in horas & minuta converſus juxta *Tabulam ſub lit. G. part. 1. Ephemerid.* oſtendit tempus à Meridie 4 hor. 16 minutor. ubi in Sole jam duo digiti obſcurati videbantur.

Aliud Exemplum.

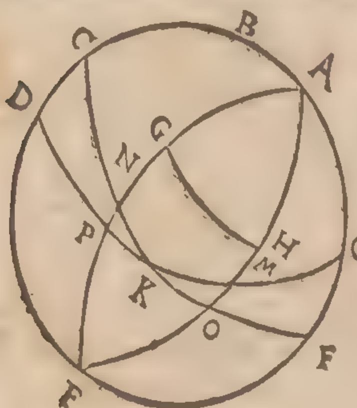
Cùm Eclipſin Lunarem ferè totalem ad annum Chriſti 1634. diem 4 Martii, feriam 3. obſervarem, cœpi ad exactè inveſtigandum tempus horarium per Quadratum Geometricum altitudinem cordis ♌ in plaga Orientali: Data igitur hæc fuerunt. I. diſtantia polorum Horizontis & Æquatoris 36 gr. 30/. II Complementum Declinationis cordis ♌ Boreæ 76 gr. 16/. III. Altitudo ejus in plaga Orientali 41 gr. 25/. Sol erat in 24 gr. 20/ ♓, & Aſcenſio ejus Recta 345 gr. 48/. Aſcenſio verò recta cordis ♌ 147 gr. 13/. Hinc datur tempus à meridie 7. horar. 50/. quo tempore duo minuta à primo principio obſcurationis ☽ elapſa erant. Tertia Pars ☽ defecerat cùm cordis ♌ altitudo eſſet part. 44, 1/ in plaga Orientali: Unde diſtantia ejus à medio cœli data eſt 29 grad. 16/. & Aſcenſio Recta 354 gr. 49/. Hinc rurſus gradus à meridie reſultant 123 gr. minuta 8, ipſumq; momentum obſervationis 8 horar. 13 minutorum. Itaq; cùm hoc problema maximum habeat uſum, Aſtrophili diligenter ſe in ejus praxi exerceant; ſic enim eò feliciùs tàm in Eclipſigraphia quàm indagando tempore partium diei verſabuntur.

PROBLEMA SEXTUM.

6. *DAtâ duarum Stellarum Longitudine ac Latitudine, ſive etiam Aſcenſione Rectâ, & declinatione, earum intercapedinem invenire: Cum Corollario de methodo computandi Aſpectus, Planetis ad aliquot gradus Latitudinis excurrentibus.*

Habent Aſtronomiæ Studioſi in Abaco Longitudinis & Latitudinis fixarum, ut & Aſcenſionis Rectæ & Declinationis earundem materiam ſe exercendi, ſuorumq; inſtrumentorum, ſi quæ fortè habuerint, certitudinem

cudinem explorandi: Siquidem ex iis cognitis veram stellarum inerrantium distantiam venari queunt, cujus modum in hoc problemate ostendemus. Nobiliss. Tycho à Brahe, *lib. 1. Epistolar. Astronomicar. pag. 50* testatur se inter Aldebaran & Tertiam ♈ seu Lucidam in vertice capitis ♈ distantiam cepisse per Sextantes Astronomicos 35°. 32′. Datâ nunc ad quodvis tempus utriusq; Longitudine vel Ascensione Recta, ambarum utrobiq; differentia colligitur. Deinde quoq; complementa Latitudinum vel Declinationum in promptu sint necesse est. Esto enim



in proposito schemate A Polus Eclipticæ Septentrionalis: sintq; ANOF & AMOF: Latitudinum circuli; Ecliptica sit CNKO F: Quæratur deinde distantia Lucidæ in vertice ♈ ab ea quæ est in oculo Austrino ♉, appellaturq; etiam Arabico nomine Aldebaran: Repræsentet autem portionem Eclipticæ arcus DG, & sit Locus Lucidæ ♈ N, Aldebaran verò in O. Erit ergo Arcus N O distantia quæsita.

Longitudo harum stellarum ex *Tab sub lit. D. part. 1. Ephemerid. pag. 76.*

Lucida in vertice capit. ♈.	2 gr. 40/ ♉.
Aldebaran	4 gr. 46/ 30//. ♊.
Differentia Longitudinis	32 gr. 6/ 30//.

Latitudo ex eadem Tabula utriusque

Lucidæ ♈ B. 9 gr. 57/ Complementum 80 gr. 3/.

Oculi ♉ Austr. A. 5 gr. 31/. Excessus ultra Quadrantem 95 gr. 31/.

Itaque in Triangulo N A O dantur

Crus N A 80 gr. 3/. Complementum Latitudinis Lucidæ ♈.

Crus N O 95 gr. 31/. Excessus Latitudinis ultra Quadrantem Aldebaran.

Angulus interceptus NAO 32 gr. 6/30//. Differentia Longitudinis.

Emergit igitur ad *Casum 3. cap. 7. Triangulor. Sphæric. Obliq.* Antilog-us Basis N O, si rectè operatus fueris, 20600, qui dat distantiam quæsitam 35 gr. 32/. ferè.

Ejusdem

Ejusdem distantiæ ex differentia Ascensionum & Declinationum harum Stellarum investigatio.

Idem locus etiam perquiritur ex datis Declinationibus Stellarum, unà cum Ascensionum Rectarum differentia. Nam in eodem Diagrammate datur A polus Mundi Arcticus, & F polus Mundi Antarcticus. Proinde A H F & A G F. erunt partes Declinationis Sphæræ nostræ, in quibus datæ Stellæ inveniuntur.

In Tab sub. lit. H part. 1. Ephemerid pag. 85.
occurrunt ad Annum Christi 1600.

Ascensio Recta Lucid. ♈ 26 gr. 13/. Declinatio 21 gr. 33/ B.
Aldebaran ♉ 63 gr. 16/30//. 15 gr. 38/ B.

Differentia utriusq; Ascension. 37 gr. 3/30//. Ex quibus etiam eliciuntur earum complementa.

In Triangulo igitur G A H dantur
G A 68 gr. 27/. Complementum Declinationis Lucidæ ♈.
H A 74 gr. 22/. Complementum Declinat. Aldebaran.
Angulus interceptus G A H 37 gr. 3/30//.

Antilogarithmus igitur Lateris G H prodit 20608, 35 gr. 32/. Qui cum priore convenit. Atq; hoc pacto sese Astrophilus in investigatione distantiæ reliquarum Stellarum itidem exercere poterit.

COROLLARIUM.

De methodo computandi Aspectus, quando Planetæ aliquot Graduum incurrunt Latitudinem.

Annectam etiam hìc, tanquam ἐπίσαγμα, rationem computandi Aspectus Planetarum, quando eorum Latitudo aliquot gradus obtinet, modo non multùm ab hoc problemate diverso. Inveniuntur autem Casus tres, in quibus reductione aspectuum opus est.

Primus Casus est, quando unus saltem Planeta habet aliquam evidentem Latitudinem: Nam tunc, si Aspectus minor est Quadrante, Antilog—um Latitudinis subtrahe ab Antilog—o Aspectus, & relinquitur Antilog—us arcus ostendentis competentem Aspectum: Quod si verò Aspectus major est Quadrante, tunc Antilog—um Latitudinis aufer ab Antilog—o complementi ad semicirculum, sic etiam remanet Anti-

log_us complementi arcus quæsiti, qui respondet ipsi aspectui *per Casum 2, cap. 6.* Sed Exemplo uno atq; altero res fiet illustrior.

Anno Christi 1643. die 28. Febr. Stylo veteri, ♀ versatur in 20 gr. 17/ ♒, & habet Latitud. Septentr. 6 gr. 41/. quæratur autem quando Semisextum, qui est distantia 30 gr. cum Sole faciat? Operare igitur juxta datum præceptum, hoc modo:

14384 Antilog_us 30 gr. Aspectus SSti.
682 Antilog_us Latitud. ♀ 6 gr. 41/.

13702 Antilog_us qui ostendit arcum distantiæ SSti Aspectus inter ☉ & ♀ cum tanta Latitudine, 29° 19′.

Hic igitur Aspectus inter diem 27 & 28 Febr. intercipitur.

Sin verò Aspectus major fuerit Quadrante, e.g. Biquintilis, tunc ita ordina numeros.

21194 Antilog_us complementi 144 gr. ad semicirculum.
1131 Antil. Latit. ♀. 8° 36/. qui est 36. gr.

20063 Antilog_us arcus 35° 6′ ferè, qui subtractus à semicirculo relinquit arcum 144 gr. 54/. pro Biquintili aspectu ♀ in tanta Latitudine

Secundus Casus est, quando ambo Planetæ habent Latitudines æquales inter sese, easq; vel ejusdem plagæ vel diversæ: Tunc igitur formatur Triangulum Isosceles seu Æquicrurum, & bipartito aspectu quæritur reductio dimidio conveniens, si plagæ Latitudinum diversæ, vel complementum dimidii, si plaga eadem, ad modum in primo casu observatum Veluti detur Aspectus Quintilis 72 grad. inter duos Planetas, quorum unus habeat Latitud. Sept. 6 grad. alter verò Austral. itidem 6. graduum: Operare igitur ut sequitur.

Dimidius Aspectus de 72 gr. est 36 gr.
Hinc 21194 Antilog_us 36 gr.
549 Antilog_us 6 gr. Lat.

20645 Antilogus arcus 35 gr. 34/ qui duplicatus format Aspectum Quintilem, in tali Latitudine, isq; tantùm est 71° 8′.

Sin verò Planetæ fuerint plagæ ejusdem, tunc operare per complementa dimidii Aspectus.

53139 Antilog_us 54. Complementi dimid. aspectus.
549 Antilog_us 6 gr. Latit.

52590 Log_us arcus 36 gr. 14/. qui bis assumtus exhibet 72 gr. 28/. di-

28'. distantiam videlicet Aspectus Quintilis, si Latitudines Planetarum ejusdem plagæ fuerint.

Hîc etiam notandum est, quod Quadratus aspectus cujuscunq; Planetæ cum ☉ vel cum alio, qui exspers est Latitudinis, non indigeat reductione, etiamsi ille evidentem obtineat Latitudinem. Si quoq; Latitudines Quadrante minores propemodum æquales fuerint, & plagæ ejusdem, tunc omnibus aspectibus promiscuè respondent arcus Eclipticæ majores: Si verò diversæ fuerint, minores, ut ex præcedente Exemplo patet.

Tertiò, si differunt Latitudines quantitate, tunc sic procede, sicuti in hoc problemate paulò ante distantiam stellarum indagasti: & vide ut numeros saltem rectè ordines, cujus rei ecce geminum exemplum. Semisextilis aspectus inter ♃ & ♀ incidit in diem 12. Apr. Anno Christi 1643. Cum autem uterq; Planeta sit cum evidente Latitudine complicatus, videndum est, quantus arcus ad hunc aspectum formandum requiratur. Numerorum dispositio talis est.

Primùm Latitudo ♀ est 8° 34'. Septentr. Complementum ejus 81. gr. 26'. Secundò Latitudo ♃ 1° 7' Merid. vel excessus supra Quadrantem 91 gr. 7'. Tertiò distantia pro aspectu 30 grad.

		°	'	
1122	Log—us	81	26	
19	Antilog.	1	7	
1141	Summa Log—rum.			

°	'	"	
91	7		Latus majus.
81	26		Latus minus.
9	41		Differ.
4	50	30	Semidiff.

°	'	"		
15			Semibasis	
4	50	30	Semidiff.	
19	50	30	Aggreg. cujus L.	108051
10	9	30	Differ. cujus L.	173518
				281569 Aggreg.
				1141
				280428

Numerus bisectus est 140214 exhibens 14° 15', qui duplicatus format distantiam Aspectus in 28 gr. 30'.

Aliud Exemplum.

Die 2 Martii Anno Christi 1643 incidit Quintilis ♄ ♂.

1. Latitudo ♄ est 2° 6′ Meridional.

2. Latitudo ♂ est 1° 40′ Septentr.

3. Distantia Aspectus 72°.

67	Antilog—us 2° 6′.			91° 40′	Latus majus
42	Antilog—us 1° 40′			87° 54′	Latus minus.
109	Summa Log—rum.			3 46	Diff.
				1 53	Semidiff.

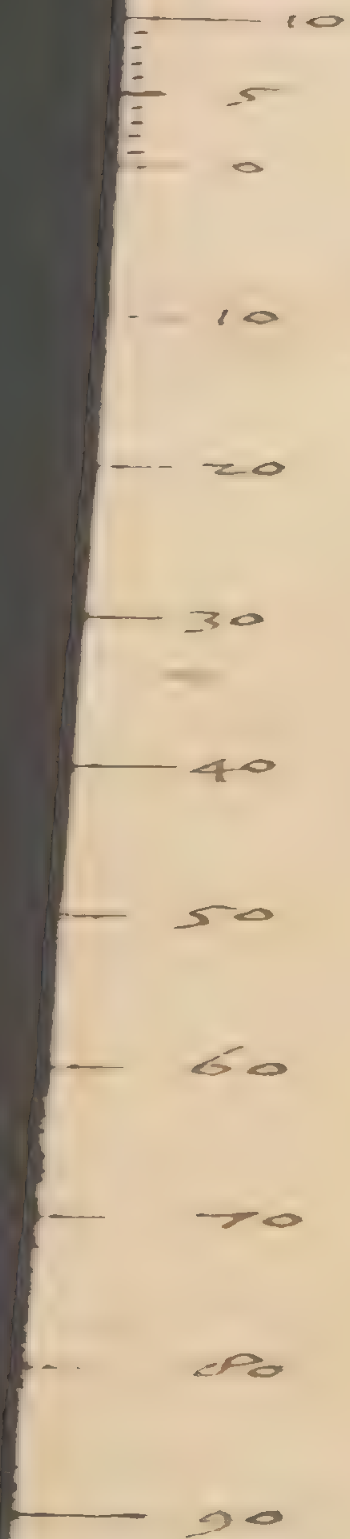
36°	0′	Semibasis	
1	53	Semidiff.	
37	53	Aggreg. cujus Log—us est	48767
34	7	Differ. cujus Log—us est	57825
			106592
			109
			106483

Numerus bisectus est 53241 qui dat arcum 35° 57′ 30″, isq; duplicatus efficit exquisitam distantiam hujus Quintilis Aspectus 71° 55′.

PROBLEMA SEPTIMUM.

7. *ORtum & Occasum heliacum, seu Intervallum emersionis & occultationis Siderum certâ Trigonometriæ Logarithmorum ratione perscrutari.*

Triplicem esse ortum & occasum siderum, Cosmicum, Acronychum, & Heliacum, *cap. 7 part. 1 Ephemerid. pag. 30.* inculcatum fuit. Quomodo verò Ortus & Occasus Cosmicus, nec non Acronychus Stellarum deprehendatur, ibidem unà traditum est, modusq; ille satis etiam ex problemate secundo hujus capitis patet, quod Ascensiones & Descensiones



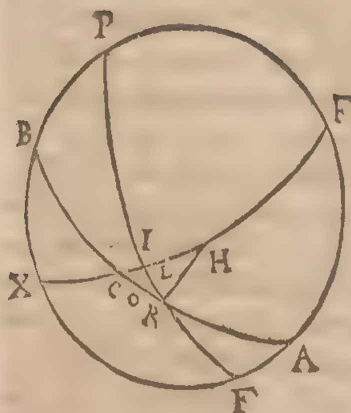
10
5
0
10
20
30
40
50
60
70
80
90

ſiones obliquas Stellarum inquirere docuit, ita ut ex eo reliqua quæ in præfato *cap. 7. part. 1. Ephemerid.* adhuc deeſſe videntur, facilè ab Aſtrophilo ſuppleri queant. In hoc Problemate tertium, ortus & occaſus heliaci ſcilicet genus, ſuccinctè perſequemur: Stellæ enim aliquanto ab Sole intervallo diſtantes radiis ipſius immergere & rurſus emergere incipiunt, unde heliacus ortus, φάσις quoque, hoc eſt, apparitio matutina, & occaſus, κρύψις, hoc eſt occultatio veſpertina, dicitur. Intervalli porrò meta pro ſiderum magnitudine alia atq; alia eſt. Nam Ptolemæus ſingulis Planetis, ſingulisq; fixarum claſſibus ſuas tribuit profunditates reſpectu ☉ & Horizontis in circulo verticali intra quas Stella in ipſo Horizonte videri incipiat vel deſinat: Has profunditates in ſingulis Planetis, ſeu arcus viſionum ſequens Tabella exhibet.

Tabella arcuum viſionum ſeu profunditatum Stellarum ex Ptolemæi lib. 13 Magnæ conſtruct.

Planeta.	Gr.	/	Stellæ fixæ magn.	Gr.	/
♄	11	0	Primæ	12	0
♃	10	0	Secundæ	13	0
♂	11	30	Tertiæ	14	0
♀	5	0	Quartæ	15	0
☿	10	0	Quintæ	16	0
			Sextæ	17	0
			Minutiſſimæ	18	0

Cùm igitur heliaci ortus & occaſus ſtellarum à Poëtis frequens fiat mentio, & Aſtronomi ad obſervanda ſidera illum attendere cogantur, nec ab Aſtrologis negligantur, cùm hujusmodi ortus varios temporum articulos determinet, quorum & Veteres ad agriculturam exercendam meminerunt, iccirco operæ precium faciemus, ſi modum hîc exquirendi quantitatem diſtantiæ ſingulorum Planetarum & fixarum, ut manè ante ☉ ortum, vel veſperi poſt occaſum ☉ conſpiciantur, tradiderimus. Itaq; quod primùm Stellas fixas attinet, referatur huc ſchema, in quo



consideretur Triangulum H Q R, & repræsentetur tam circulus Meridianus quam Ecliptica, sitq; locus stellæ in H, Latitudo verò ejus HR, sitq; I O distantia Solis ab Horizonte, & punctum Eclipticæ, quî cum Stella oritur. Quócirca ad ortum & occasum heliacum Arcturi, [quē exempli loco hîc proponemus] investigandum, in Triangulo orthogono HQR angulus Q ostendat ortum Arcturi, cujus locus verus *in Tabula D, part. 1, Ephemerid. pag. 79.* ad annum Christi 1640 invenitur in 19° 13′ ♎, & ex *Tabula M. ejusdem part. pag. 96.* quod cum eo cooriatur punctum Eclipticæ 28 gr. 50/. distantia igitur utriusque est arcus R Q graduum 20 min. 23. Latitudo verò arcus H R 31 gr. 2/ 30//. B. At Latus I O gr. 12. quippe Arcturus est Stella primæ magnitudinis. Ergo in Triangulo IQO datur *per problema quartum hujus capitis* angulus I Q O 59 gr. 1/. qui est angulus Eclipticæ & Horizontis. Ex noto angulo ad QIO innotescit etiam basis QO *per Casum 5. cap. 6.* 14° 2′: quo addito ad punctum ortus veri, qui est 28 gr. 50/. ♍ relinquitur ortus heliacus Arcturi in 12 gr. 52/ ♎. Proinde in nostro Horizonte Stetinensi Pom. circiter d. 25 Septembr. Styl. Vet. Arcturus vesperi ex radiis Solaribus emergere & rursus apparere incipiet. Cæterùm patet ex *Tabula N part. 1. Ephemer. pag. 100.* quod ortus acronychus Arcturi seu verus vespertinus ad annum Christi 1640. sit in 6 gr. 27/ ♑. Arcus igitur in Ecliptica Q O elicitur eadem viâ 28 gr. 14/. quibus de 6 gr. 27/. ♑ deductis, remanet occasus heliacus Arcturi in 8 gr. 13/ ♐. Unde Arcturus circiter diem 20. Novembris Styl. Vet. radiis Solaribus abscondi incipiet. Eodem pacto etiam Sirii seu Caniculæ Ortus & Occasus heliacus deprehendi poterit. Punctum enim cooriens cum hac stella invenitur 19 gr. 19/ ♌, Angulus Eclipticæ & Horizontis 51 gr. 20/. Intervallum apparitionis matutinæ 15 gr. 26/. & ipse heliacus ortus in 4 gr. 45/ ♍. Sic punctum cooccidens cum Sirio datur 20 gr. 36/ ♉ Angulus Eclipticæ & Horizontis 16 gr. 17/ & intervallum occultationis vespertinæ 47 gr. 52/. ipseque occasus heliacus sese sistit in 2 gr. 44/ ♈.

Arcturi

Arcturi hoc tempore sit Sedini Pom.	Sirii seu Caniculæ.
Ortus Acronychus 28 gr. 50/ ♓.	Occasus heliacus 2 gr. 44/ ♈.
Occasus Cosmicus 6 gr. 27/ ♋.	Occasus Acronych. 20 gr. 36/ ♉.
Ortus Cosmicus 25 gr. 50/ ♍	Ortus Cosmicus 19 gr. 19/ ♌.
Ortus heliacus 12 gr. 52/ ♎	Ortus heliacus 4 gr. 45/ ♍.
Occasus heliacus 8 gr. 33/ ♐	Occasus Cosmicus 20 gr. 36/ ♏.
Occasus Acronychus 6 gr. 27/ ♑	Ortus Acronychus 19 gr. 19/ ♒.

Si quoq; de apparitione vel occultatione Planetarum es sollicitus, perquire eorundem Ascensionem & descensionem obliquam, nec non punctum in Ecliptica cooriens & cooccidens, ut in *Problem. 2.* ostensum est: deinde hujus puncti quoq; ad datam tui poli elevationem elice angulum Eclipticæ & Horizontis, ejusq; Logarithmum aufer à Logarithmo arcus visionis planetæ: sic enim remanebit Log—us distantiæ Solis à stella; quam metam quando ☉ obtinebit, Planeta tunc apparere vel incipiet vel desinet, atq; ita noveris ortum & occasum Planetæ heliacum. E. g d. 16. Augusti hujus anni 1635. ♃ ad tabulas Rudolphinas invenitur in 19 gr. ♌ cum 0 gr. 44/. Latit. Septentrionali. Ascensio ejus obliqua ad Stetinensem poli Elevationem datur 119 gr. 5/. Punctum cooriens 19 gr. 25/ ♌. Angulus Eclipticæ & Horizontis 51 gr. 23/. distantia ♃ à ☉le 12 gr. 51/. Cum igitur die 15. Augst. ♃ distet à ☉le per 13 gr. atq; præfixam hanc metam assequatur ☉, argumento est, ♃ tunc ante ☉ ortum sub crepusculi tempus emergere ex radiis ☉laribus, & pedetentim in oculos hominum sese insinuare.

Aliud Exemplum in ♀.

Venus die 16 Decembr. hujus anni deprehenditur in 10 gr. ♑ cum Lat. Septentr. 0 gr. 48/. Descensio ejus obliqua datur 247 gr. 6/. Punctum cooccidens 11 gr. ♑ Angulus Eclipticæ & Horizontis 23 gr. 40/. Hinc emergit distantia ♀ à Sole 12 gr. 32/ quam ☉ die 12 Jan. 1636. assequetur, ubi ♀ orietur vesperi heliacè. Quando autem Planeta ante conjunctionem cum Sole est occidentalis, tunc heliacè occidit, hoc est, occultatur vel immergitur radiis Solaribus vesperi, & quando est Orientalis, tunc manè occultatur. Contrà verò fit post Conjunctiones cum Sole, ibi enim quando Planeta est Orientalis, tunc in distantia ejus à Sole quæsita emergit è radiis Solaribus, quam emersionem & apparitionem vocamus Ortum matutinum heliacum Planetæ: quando autem est Occidentalis Planeta, tunc vesperi post occasum Solis sub crepusculi tempus se iterum

iterum conſpiciendum præbet. Utrum verò Planeta ſit Orientalis vel Occidentalis, ex Ephemeridibus cognoſcere poteris, ubi omnes in fronte ſyzygiarum Lunarium ſignati exſtant.

Corollarium hujus Problematis.

Dato jam puncto Zodiaci, quo cum Stella Coſmicè vel Acronychè oritur occiditve, datâ inſuper Latitudine, tam poli loci quàm Stellæ, Longitudo quoque illius innoteſcit, & ſeculum, quo Stella ita orta eſt vel occidit. Ratio hujus Corollarii ex præcedente & reliquis fluit problematibus, cujus uſum præſtantiſſimum in ſubjecto exemplo experiemur. Plinius, *lib. 18. nat. hiſt cap. 25.* ſcribit occaſum matutinum Vergiliarum ſeu Pleiadum à Thalete eſſe traditum fieri die 25 ab æquinoctio autumnali, quod de Coſmico occaſu accipiendum eſſe patet: Ut igitur locus Vergiliarum eo tempore & ſeculum, quo Thales Mileſius floruerit perſpiciatur, conſideretur in ſuperiori ſchemate primùm Triangulum Rectangulum OIR, aſſumatur autem pro Coſmico Vergiliarum Occaſu in ſigno oppoſito occaſus Acronychus, ut uſitatum eſt, & ex præmiſſis exemplis Arcturi atq; Sirii patet. Is igitur in 25. gr. ♈. Sit itaque in præmiſſo ſchemate Horizon occiduus XHF, R ſectio verna, & primùm in Triangulo OIR ad eliciendum angulum OIR dentur primùm angulus OIR graduum 23. min. 32. obliquitas Eclipticæ maxima, latus oppoſitum IO 9 gr. 43/. Declinatio puncti cooccidentis, & angulus IOR ſit rectus. Ergo per *Caſum 7. cap. 6.* datur angulus OIR 68 gr. 27/ 40//. Porrò in Rectangulo QOI ad angulum QOI ſunt δεδόμενα OQ, gr. 53. complementum Latitudinis loci Mileti in Aſia, Latus IO grad. 9 43/ ut antè, & angulus ad QOI ſit rectus. Itaq; per *eundem Caſum 7. cap. 6* invenitur angulus QIO 37 gr. 37/ 50//. quo cum ſuperiore aggregato exiſtit angulus QIR grad. 106. 5/ 30//. Cujus complementum ad ſemicirculum eſt HIL 73 gr. 54/ 30//. Tandem in Rectangulo LHI ac arcum LI explorandum dantur HIL, angulus jam repertus 73 gr. 54/ 30//. Latus LH 4 gr. 0/. Latitudo Lucidæ Plejadum, & angulus HLI rectus. Ergo *per Caſum 15. cap 6* obtinetur arcus LI 1 gr. 9/. qui de 25 gr. ♈ detractus relinquit Longitudinem Lucidæ Pleiadum in 23 gr. 51/. ♈ Hic locus ab eo qui anno Periodi Julianæ 6354. vel Anno Chriſti 1640. invenitur in *Tabula D. par. 1. Ephemerid.* in 24 gr. 58/ ♉, remotus eſt per 31 gradus &7

& 7 minuta. Hoc igitur intervallum per *Tabulam sub lit. E.* in annos conversum efficit 2197 annos, quibus de 6354. demtis, remanent anni Periodi Julianæ 4157, quo anno, hoc est anno 2. Olympiadis 55 Thaletem Milesium floruisse certum est: Creditur enim vixisse usque ad annum Olympiadis sexagesimum. Idem Thales ante annos 27. nimirum anno 3. Olympiadis 43 Eclipsin ☉ prædixit, ut autores sunt Plinius, *lib. 2. nat. hist. cap. 12.* Cicero, *lib. 1. de Divinat.* Solinus, *cap. 25* & Clemens Alexandrinus, *lib. 1. Stromatum.* Synchroni ejus creduntur fuisse Meton, Eudemon, & Anaximander. De hujus Thaletis ætate eleganter etiam disserit *Petavius, lib. 6. variar. dissert cap 10.*

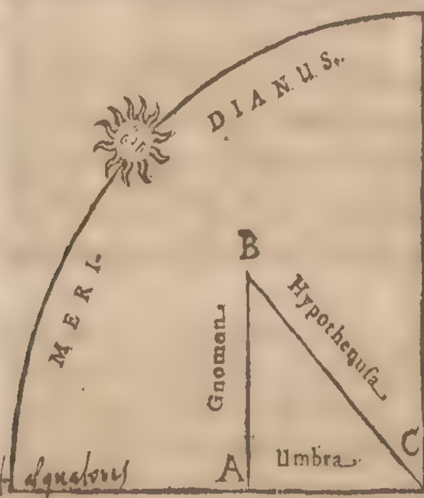
PROBLEMA OCTAVUM.

8. *Data Gnomonis & Umbræ mensura, vel quantitate baculi, vel loco ejus staturæ nostræ, tanquam corporis umbrosi, perpendiculariter ab Horizonte erecti, ut & longitudine umbræ, datur in hac proportione etiam altitudo Solis, & si Solis Declinatio fuerit quoq; cognita, datur insuper regionis latitudo ex umbra Meridiana.*

Veteres Mathematici ex data proportione Gnomonis ad umbram circa puncta Æquinoctialia, Sole Meridiem attingente, non tantùm Altitudinem Solis, verùm etiam Latitudinem loci seu Elevationem poli venati sunt, cùm circa Æquinoctialia tempora Sol Declinationis expers sit: Iccirco quando *Strabo, lib. 2. Geographiæ, pag. 133 & seqq. in edit. Casauboni,* Vitruvius, *lib. 9. de Architectura, cap. 8* Plinius, *lib. 2. natural. histor. cap. 72.* de proportione umbræ & gnomonis in diversis regionibus loquuntur, per umbras intelligunt Æquinoctiales & Meridianas, praxisq; in hisce consistit: Erigatur Stylus ad superficiem Horizontis perpendiculariter, vel accipiatur quantitas propriæ nostræ staturæ, quæ etiam corpus umbrosum efficit, ex cujus umbra meridiana, cùm Sol in Æquinoctiorum punctis exsistit, colligitur altitudo ejus, & simul Latitudo loci seu Elevatio poli. Nam formatur hîc Triangulus Rectangulus, cujus tria latera repræsentant basin, κάθετον seu perpendiculum & ὑποτείνουσαν seu subtensam, ex quibus etiam Index Scioterici tàm Horizontalis

quàm verticalis formari solet: Nam hîc Gnomon, Stylus, seu umbilicus repræsentat perpendiculum; Radius Solis à loco Incidentiæ seu extremitate styli ad superficiem Horizontis usq;, unde reflectitur, hypothenusam refert; reliqvum verò latus Trianguli superficiei Horizontis insistens basin exprimit. In Triangulo igitur plano Rectangulo datâ Quantitate vel mensurâ perpendiculi, & proportione umbræ ad hanc, datur quoq; angulus qui altitudinem Solis exhibet, *per paragraphum 15. cap. 4. de solutione Triangulorum Planorum.* E. g. Strabo & Vitruvius *dictis locis* referunt, quod Sol Æquinoctiali tempore in ♈ & ♎ versando Athenis Gnomonis partes faciat quatuor, umbræ verò tres. Si igitur jam assumantur Gnomonis partes 400, in Tabula Sinuum respondet arcus 23 gr 34/50//. umbræ verò partes 300. quibus competit arcus 17 gr. 27/30//. Assumatur itaque hîc Triangulum planum A B C ubi datur Perpendiculum B A partium 400. Deinde Basis A C Longitudo umbræ partium 300. Angulus ad A esto Rectus, & quæratur Angulus ad C. Hic igitur per præfatum *§. 15. cap. 14.* ita investigatur.





120393 Log-us basis 300 part.
91619 Log-us *καθέτῳ* 400 part.

28774 ✠ Mesolog-us anguli quæsiti ad C. qui ostendit altitudinem Solis 36° 52′, & simul Latitudinem loci Atheniensis, cùm Sol ınibi Declinatione destituatur, quæ habitâ est à Veteribus 37 gr. circiter.

Porrò iidem autores referunt in Urbe Roma nonam partem Gnomonis deesse umbræ, hoc est, in Roma circa Æquinoctii tempus Gnomon habet partes 9 & umbra 8. Sequitur ergo quod altitudo Solis institutâ simili operatione circa Æquinoctium ipsaq; Latitudo loci dentur 41 gr. 33′. Et ut Studiosi Geometriæ, Astronomiæ, & Optices, majorem sese exercendæ habeant ansam in hac utilissima umbrarum materia, apponam hîc Observationes proportionum Umbrarum Aquinoctialium & Meridianarum ad Gnomonem à nonnullis artificibus positas.

Umbra Alexandriæ continet tres partes, quarum Gnomon est quinq;:

Relin-

Relinquitur ergo ibidem Altitudo Solis, quæ æqualis Latitudini loci Alexandrini, 30 gr. 58/. In Ancona oppido Italiæ umbra Æquinoctialis est partium 34 Gnomon 35. Hinc emergit altitudo Solis & poli 44 gr. 10/.

Umbra Æquinoctialis VVittenbergæ est part 15. min. 21. sec. 27. Gnomon verò 12 partium. Hinc prodit Altitudo Solis VVittebergæ 38 gr. 8/. & Elevatio Poli 51 grad. 52 min. quæ est ejus complementum. In Veteri Sedino Pomeranorum umbra Æquinoctialis in Meridie observata est part. 811. qualium Gnomon habuit 600. Invenitur ex hisce datis Altitudo Solis & Æquatoris 36 gr. 30 minutorum: Et proinde ipsa Elevatio poli 53 grad. 30 minutorum.

Eodem modo ex umbra Solstitiali æstiva Meridiana Altitudo Solis & poli elici possunt. Sumatur enim in exemplum ex *Ptolemæi lib 11. magnæ composit. cap. 6.* Parallelus decimus, ubi distat ab Æquinoctiali vertex grad. 33. min. 18. & proportio Gnomonis ad æstivam umbram est ut 60 ad 10. Obtinebitur igitur Angulus ad C gr. 9. 27 min. ferè, qui est distantia verticalis puncti ab æstivo Tropico: Cui si addatur maxima obliquitas Eclipticæ Ptolemaica, quæ est 23 gr. 51 min. Consurget verticalis puncti distantia ab eodem Æquatore sive poli Altitudo grad. 33. min. 19. Abundante hìc uno minuto ultra Latitudinem Ptolemaicam. Scribitur autem decimus Parallelus per mediam Phœniciam, ubi maxima Longitudo diei est 14. hor. 15. minutorum. Eodem modo ex proportione Gnomonis ad hibernam umbram altitudo Solis & poli colligi possunt, ita ut pluribus exemplis non sit opus.

Quando verò altitudinem Solis extra meridiem lubet cognoscere, eadem praxi hìc opus. E. g. Ego Sedini die 8 Augusti Anno Christi 1632. formavi stylum, qui respectu mei Radii in mille partes divisi exæquabat 925. particulas, qualium etiam erat mea statura corporis. Atq; hoc perpendiculum in proposito Triangulo exhibet latus B A. Longitudinem verò umbræ definito tempore inveni particularum 2115. respectu Gnomonis.

238054 Log–us B A.
-155346 Log–us A C.

82708 + Mesolog–us Altitud. ☉ 23° 37′.

Itaq; Altitudo ☉ desiderata tunc fuit in gradibus 23. in minutis 37. particularum.

Consectarium.

Datâ jam Altitudine Solis & poli cum vero loco Solis & Declinatione ejusdem, tempus Observationis vel antemeridianum vel pomeridianum per præcedens *Problema 5.* datur. Exempli loco sit observatio illa Altitudinis☉ Stetini habita, quo tempore ☉ extitit in 25 gr. 37/ ♌. & Declinatio Solis fuit inventa 13 gr. 2 min. Altitudoq; Solis data 23 gr. 37/. Hinc tempus à meridie in gradibus Æquatoris prosiliit 68 gr. 12 min. in tempore horario verò 4 horar. 33 min. propemodum. Ergo tempus meæ observationis fuit hora 4 & 33 min. post meridiem. Atq; sic Philomathes cognita quantitate sui corporis & proportione Gnomonis ad eam, serenis æstivis diebus quovis tempore non tantùm Altitudinem Solis, sed & Elevationem loci & horas satis præcisè ante & post meridiem noverit: quæ cognitio jucundas ei speculationes & utiles in Sciathericis subministrare poterit; longeq; faciliùs, quàm Veteres, per Logarithmorum Canonem, tanquam mirificum compendium, hæc omnia assequetur.

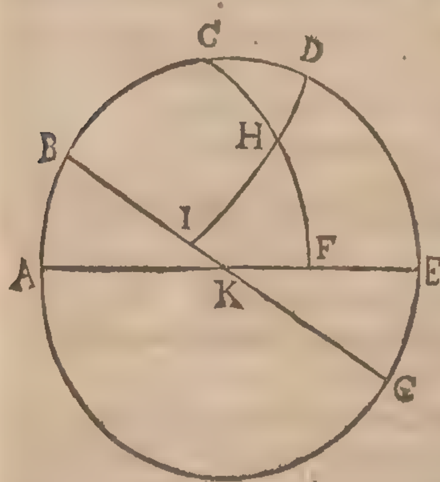
PROBLEMA NONUM.

9. *EX dato Azimutho atq; altitudine Stellæ, nec non cognito temporis articulo, vel Ascensione Recta medii cœli, & insuper loco Solis atq; Latitudine loci, Declinationem ejus & Ascensionem Rectam inquirere, & deniq; Longitudinem Latitudinemq; Stellæ superstruere.*

Hoc problema Regiomontanus, *in peculiari libello de Cometis*, & *Epitome constructionis magnæ*, Apianus *in Cæsareo Astronomico*, & Osvvald. Schreckenfuchsius, *in doctrina Triangulorum*, perplexis & operosis rationibus proposuerunt. Quamvis autem hic modus facilè lapsui sit obnoxius, præsertim quando ipsum momentum temporis non præcisè constat, neque locus Solis exactè est cognitus; neque etiam Quadrans vel Quadratum sufficientem quantitatem obtinet, ita ut Azimutha exactè ad singula scrupula prima referre possit: tamen si hi errores, qui sese ingerere solent, debitâ diligentiâ præcaveantur, modus iste quàm proximè citra magnum errorem stellæ locum exhibere potest.

Sæpe

Sæpe enim Stellæ altitudo in Meridiano capi nequit, vel ob instabilem auram, vel quod sub noctem stella aut novum phænomenon ad culmen cœli non perveniat. Ideoq; Astronomum tunc ad hunc modum confugere oportet. Quamobrem praxin hujus Problematis ad modum & exemplum Tychonicum ostendam. Nam *libro 2 progymnasm pag. 23.* sub finem anni 1577. Stellæ in dextro genu Pegasi transitum per Meridianum nondum obtinuerat, unde ejus Declinationem & Ascensionem Rectam sequenti modo investigavit. Cùm in Meridiano de Æquatore essent gradus 55. min. 45. deprehendit altitudinem hujus Stellæ part 28. min. 24. & in Azimutho 8 gr. 53 min. versus Septentrionem ab occasu Æquinoctiali. Sit igitur in adjuncto Schemate Meridianus C B A G F D, Horizon A K E, polus verticis C, polus Æquinoctialis D, Æquator B K G, Locus Stellæ in H, per quem transeat à polo Verticis seu Zenith in Horizontem Quadrans C H F. Similiter transeat à polo Æquatoris D in Æquatorem per H alius Quadrans D H I. Unde patet, quod arcus H F referat altitudinem Stellæ, K F verò Azimuth ab occasu versus plagam Septentrionalem. Sitque arcus H I Declinatio: Angulus verò B D I differentia Ascensionis Rectæ Stellæ & medii cœli, quæ hunc in modum inquiritur. In Triangulo C D H dantur duo latera angulum notum intercipientia: nam latus C D est distantia poli mundi à Zenith, seu complementum Latitudinis loci 34 gr. 7/. Latus C H est complementum altitudinis observatæ 61 gr. 36/. Angulus verò inclusus D C H est complementum Azimuthi quem metitur arcus Horizontis F E 81 grad. 7/. Quocirca non ignotum quoq; erit Tertium latus D H *per Casum 3. cap. 7.* quod est Complementum Declinationis Stellæ, invenitureq; 61 grad 58/.



Ipsaq: Declinatio Stellæ in dextro genu Pegasi Borea 28 gr. 2 min. Porrò pro Ascensione Recta impetranda idem retinetur Triangulus, cujus latera omnia jam nota sunt; unde & dabitur angulus C D H, quem metitur Arcus Æquatoris B I differentia Ascensionis Rectæ medii cœli B & Ascensionis Rectæ Stellæ, quæ est in I. Hic angulus autem per *Casum 1. c. 7.*

præcisè invenitur 79 gr. 56 minut. Si igitur hunc arcum subtraxeris ab Ascensione Recta medii cœli, quem Tycho ex loco ☉ cognito & Horologio non tantùm horas, sed & horarum minuta exactè referente obtinuit 55 gr. 45/, emergit Ascensio Recta Stellæ in dextro genu Pegasi 335 gr. 49 minutorum, & Declinatio Borea 28 gr. 2 minut. Deinde ex hisce *διδωμένοις per Problema 3. hujus* colligitur Longitudo dextri genu Pegasi ad anni 1577 finem in 19 gr. 50/ ♓ & Latitudo B. 35 gr. 6. min. Qui locus ab ultima Tychonica determinatione stellarum fixarum non multùm discrepat. Si Philomathes plura exempla desiderat, præfatos consulat autores, & cumprimis *lib. 2.* Tychonis Brahe *de recentibus mundi ætherei phænomenis, pag. 217 & seqq. pag. 346. & pag. 433 Uranodromum* M. Petri Crugeri, *de Cometa Anni 1618.* & alios horum sectatores.

Tycho Brahe, ut & alii, nonnunquam etiam ad Declinationem & Ascensionem Rectam Stellæ pervenerunt, citra ambages, quando scilicet Stellæ altitudinem maximam, eâ Meridianum transeunte, & ipsum temporis articulum, quo id accidit, observarunt, unde datis loco Solis & altitudine poli datur quoq; Declinatio & Ascensio Recta Stellæ, sicut in exemplis, quæ *lib 2. Progymnasm. pag. 14. & lib. 1. pag 694. & pag. 698.* adducuntur, patet.

Corollarium.

Ex deprehensis Altitudinibus Stellarum in Meridiano Poli loci elevationem colligere.

Cùm in praxi priorum Problematum Elevatio poli seu Latitudo supponatur: Idcirco modum investigandi eam corollarii loco huic Problemati adjiciam.

Hæc autem I. innotescit, quando maxima alicujus Stellæ in Meridiano altitudo capitur, & ab ea Declinatio Stellæ septentrionalis subducitur, vel eidem Meridionalis additur; sic enim relinquitur altitudo Æquatoris, quæ est complementum Elevationis poli loci. E. g. Anno Christi 1634 die 4 Martii, feria 3. Stylo Veteri, observavi Quadrato Geometrico Stetini Pom. ad Viadrum Altitudinem ☉ Meridianam, occasione Eclipsis ☽ ris, cui intentus eram, partic. 6780. quæ in Tabula Tangentium exhibent altitudinem Solis 34 gr. 8. min. At ob refractionem Solis adhuc

adhuc 42 ſecunda ſubtrahenda, & ob parallaxin ejusdem 2/12//addenda erant, ita ut relinqueretur Altitudo ☉ correcta 34 grad. 9 min. 30 ſec. Sol tunc extitit in 24 gr. 2 min. ♓. Et ejus Declinatio Auſtralis addenda erat 2 gr. 22 min. 33 ſec. Quæ adjecta priori altitudini correctæ offert Altitudinem Æquatoris Stetini Pom. 36 gr. 32/ cujus complementum 53 gr. 28/ eſt Elevatio Poli Stetinenſis. Qualem & ante hac Dn. Georgius Rhetius Quadrante deprehenderat.

Rurſus ſub noctem cœpi Altitudinem Meridianam, [horâ 7. min. 43] antequam Eclipſis ingruebat, Procyonis ſeu Ante-Canis, ut à Cicerone vocatur, Altitud. quæ erat particularum 9220, & graduum 42. min. 41. Declinatio ejus B. 6 gr. 8/. Unde relinquitur Altitudo Æquatoris Stetini ad Viadrum 36 gr. 33/. Et Elevatio poli 53 gr. 27/. uno minuto minor, quàm prior. Talem quoq; deprehendi ex altitudine meridiana Cordis ♌, quam hoc anno 1635 menſe Februario & Martio aliquoties ſextante Tychonico cœpi 50 gr. 17 min. Declinatio ejus borea eſt 13 grad. 44. Relinquitur igitur Altitudo Æquatoris 56 gr. 33 min. & Sublimitas Poli Stetinenſis 53 grad. 27. min. Unde colligo hanc 53 gr. 27 min. Altitudinem Poli Stetinenſis eſſe exactiorem quam illam 53 gr. 28 vel 29 min. Quadratum enim ob minorem molem & numerorum capacitatem ad unũ minutum exorbitare potuit. Nihilominus tamen in calculo communiter receptam Elevationem Poli Stetinenſis $53\frac{1}{2}$ grad. retineo, cùm à priore ſaltem per tria minuta differat, nec à vera multum recedat.

II. Deinde, cùm Latitudo loci cujusvis æqualis ſit Elevationi poli ejusdem loci: Idcirco ex circumpolaribus Stellis eadem non operosâ methodo perquiri poteſt, quando ſcilicet maxima & minima cujusdam altitudo obſervatur, & dimidium differentiæ vel minori altitudini additur, vel majori demitur; aut etiam, quando maxima & minima Altitudo, quarum utraq; in Meridiano contingit, in unam ſummam conjiciuntur & aggregatum biſſecetur, hoc enim aggregatum biſectum eſt ipſa loci Latitudo. E. g. Gemma Friſius, *in libello, de Aſtrolabio Catholico, cap. 9.* ſcribit, quod Lovanii, Anno Chriſti 1547. die 13 Decembr. circa 6. veſpertinam, diligenter obſervaverit ſtellæ fixæ, quæ eſt in Cauda Urſæ minoris, quæque Cynoſura vocatur, Altitudinem maximam, 53 gr. 58/. quodq; die ſequente, eandem circa 6. hor. matutin cum eadem ſtella imam obtinuerit in ſeptentrione altitudinẽ, cœperit eam 47 gr 43/ fere, aggregatum utriusq; Altitudinis efficit 100 gr. & 101 minut. quod biſectum

ctum efficit 50 gr. 50/30// Ostenditq; Elevationem poli Lovaniensis 50 gr. 50/. Si in minutis velis subsistere. Hinc etiam patet, [ut obiter hoc moneam] quod distantia stellæ polaris à polo mundi Arctico tunc fuerit 3 gr. 8/. Ipsaque Declinatio Cynosuræ ex complemento ejus 86 gr 52/. Si scilicet Elevatio poli auferatur à maxima altitudine stellæ polaris: vel si minima ejus altitudo auferatur ex acquisita Elevatione poli, quæ hic est 50 gr. 50/. Tu Astrophile ex subjectis διδομένοις collige Cassellanam Latitudinem in Hassia, ubi, teste Rothmanno, Anno Christi 1585. ille invenit in superiori Meridiani parte, altitudinem stellæ polaris 54 gr. 16/. in inferiore 48 gr. 24/. Maximam verò Altitudinem pectoris Cassiopeæ 77 gr. 3/: Minimam verò 25 gr. 37. Plura exempla Tibi *lib. 1. Epistolar. Tychonis, pag. 30 & lib. 1 progymnasm. p. 361. & seqq.* occurrent.

III. Deniq; Declinationes quoq; stellarum, quæ verticem alicujus loci transeunt, vel in minima altitudine Horizontem saltem stringunt, nunquam autem infra submerguntur, Elevationem poli loci ostendunt. Sic quia Bosci Ducis Brabantiæ, & Middelburgi Zeelandiæ, Lucida Lyræ in minima altitudine deprehenditur saltem Horizontem stringere, nunquam autem occidere infra eundem; idcirco complementum Declinationis ejus exhibet Latitudinem horum locorum. Declinatio verò Lucidæ Lyræ est 38 gr. 29/. Proinde 51 gr. 31/. Complementum ejus est Elevatio poli Sylvæducis & Middelburgi.

Sic cùm Fruenburgi Borussiæ Schedir Cassiopœæ verticem ejus loci quotidie transeat, quod vel filo ad murum perpendiculariter erectum suspenso, vel inter bina fulcra perpendiculariter erecta constituto explorari potest; Idcirco Declinatio hujus stellæ proximè Elevationem Fruenburgi Borussiæ significat: Cumq; ea Declinatio sit 54 gr. 22/ ferè, colligitur & talis Fruenburgi Latitudo proximè; quanquam priores duo modi omnium sint exactissimi, & plerisq; Astronomis Latitudinem loci examussim indagantibus usitatiores.

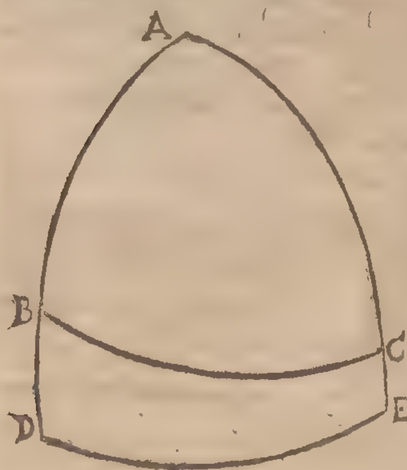
Problema Decimum.

10. *Data Altitudine Meridiana & distantia ignoti sideris ab aliqua fixarum aut Erraticarum, datur ignoti quoq; Longitudo & Latitudo.*

Hic

Hic modus indagandi Longitudinem & Latitudinem ignotæ alicujus stellæ, utpote evidentissimus, nec lapsui facilè obnoxius, Nobiliss. Tychoni præ relinquis familiarissimus fuit, sicut videre est in exemplis, quæ *lib. 1. Progymnas. Astron. pag. 157. & 192.* necnon *lib. 2. pag. 27.* & passim proponit. Quamobrem operæ precium faciemus, si compendium calculi ostenderimus. Itaq; lubet duo ista exempla, quæ loco præfato *lib. 2 progymnasm. pagin. 27. & seqq.* habet, ad nostros calculos revocare.

Prius exemplum inquirit locum stellulæ in pectore Pegasi, quæ est duarum Borealior. Hujus stellæ distantiam Braheus à Lucida Vulturis sub finem anni 1577 accepit part. 45 min. 31. exactè: Declinationem autem ejus ex altitudine Meridiana eodem anno grad. 22. min. 26. Boream.



Ergo ἰδόμενα sunt. In Triangulo B A C Latus A C complementum Declinationis Lucidæ Vulturis 82 grad. 8 min. Latus A B complementum Declinationis stellæ in pectore Pegasi 67 gr 34 min. Latus B C distantia utriusq; stellæ 45 gr. 31 min. Ergo datur per *Casum 1. cap. 7.* angulus ad A quem metitur arcus D E differentia Ascensionis Rectæ grad. 44. min 55. ferè. Cum autem Ascensio Recta Lucidæ Vulturis à Tychone sit inventa 292 part. 35 minut. addito igitur hoc arcu A R Vulturis, eò quod hæc stellula in pectore Pegasi sit Occidentalior & ulterior S S S, emergit A R stellæ in pectore Pegasi 337 grad 30 minut. Proinde datâ nunc Declinatione hujus stellulæ 22 gr. 26 min. B. & Ascensione 337 gr. 30 min. datur quoq; per Problema tertium Longitudo hujus stellæ in 18 gr. 36 minut. ♓. & Latitudo 29 gr. $24\frac{1}{2}$ min. Septentrionalis.

Posterius exemplum ostendit locum Lucidæ Lyræ, quæ à superiori & præcedente in □ Pegasi, Scheat dicto, removetur per 55 grad. 31 min. ferè: Declinatio verò Lucidæ Lyræ ex altitudine ejus Meridiana adinventa est 38 gr 26 min. Borea. Quocirca dantur hìc primùm Crus B A 64 gr. 10 min. Complementum Declinationis Scheat Pegasi; Secundò crus

A C 51 grad. 34 min. complementum Declinationis Lucidæ Lyræ. Tertiò Basis C B 55 grad. 31 min. Unde factâ operatione, per *Casum* 1. *cap.* 7. prodit angulus C A B 65 gr. 14 min. qui est angulus differentiæ Ascensionis Rectæ utriusq; stellæ, quem mensurat Arcus D E. Cùm igitur Ascensio Recta Scheat Pegasi in B collocata per punctum in Æquatore E sit graduum 340 minutor. 52. & Lucida Lyræ in signorum ordine Occidentalior sit hac Pegasi stellâ: Hinc differentia inventa erit subtrahenda, ita ut relinquatur Ascensio Recta Lucidæ Lyræ 275 grad. 38 minut. Cognitâ insuper Declinatione Boreâ Lucidæ Lyræ 38 grad. 26 minut. innotescit quoq; Longitudo ejus in Ecliptica, 9 gr. 21 min. ♑ & Latitudo B. 61 gr. $46\frac{1}{2}$ minut. ad exeuntem annum Christi 1577. Tycho quidem, *loco præfato*, accepit Latit. 61 grad. 43'. eò quod assumserit Declinationem maximam Eclipticæ 23 gr. 27'. Sicut ipse fatetur *pag.* 74. *lib.* 2. *Progymnasm.* Sic & in Longitudine deest unum minutum: correctâ igitur maximâ obliquitate Eclipticæ antè nominatâ tam Longitudo quàm Latitudo Lucidæ Lyræ provenit. Si Astrophilus plura Exempla ad calculos velit revocare, consulat Tychonem supra dictis locis.

Cautio.

Videndum autem est, ne stellæ in hac distantia Tropico ♋ vel ♑ nimis sint vicinæ; sic enim calculus ob exiguam declinationis differentiam & nimiam obliquitatem ad Æquatorem exactam certitudinem non obtinebit; unde tunc ad sequens Problema confugiendum est.

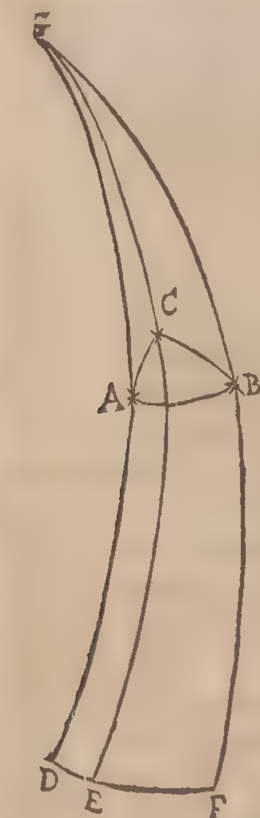
PROBLEMA XI.

11. *Cum distantia ignotæ alicujus stellæ vel novi sideris à duabus fixis secundum Longitudinem ac Latitudinem notis perspecta fuerit, ignotæ quoq; stellæ vel novi sideris ab Æquinoctio Verno in Longitudinem, & ab Ecliptica in Latitudinem digressio per ratiocinia Trigonometrica inquiri potest.*

Regiomontanus, tam *lib.* 4 *de Triangulis Sphæricis, proposit.* 28. *& ult.* quàm *lib.* 7. *proposition.* 9. *&* 10. *Epitomes ad Almagest. Ptolemæi*, generaliter ostendit, quomodo ex scientia Triangulorum hoc Problema tractandum & solvendum sit: Nobilissimus verò Brahéus com-

compluribus exemplis, *lib. 1. ac 2. progymnasmat.* hunc modum egregiè illustravit, & comprobavit, si scilicet observationes rectè fuerint institutæ, & Triangulum aptè conformatum sit. Nos unum exemplum ex eodem, quod *lib. 1. progymnasm. pag. 372. & 585. & seqq.* exstat, in summis capitibus repetemus; cui & proprium ex nostris observationibus adjungemus.

Sint in apposito schemate duæ stellæ fixæ sideris Cassiopeæ A & B. quarum A sit Lucida Cathedræ in parte superiore, quam Braheus ad annum 1572 secundum Longitudinem in 29 gr. 11/30// ♈ constituit: Secundum Latitudinem verò Bor. 51 gr. 14/30// ab Ecliptica: B verò sit illa quæ in flexura est juxta ilia, & cujus Longitudo ad eundem annum ponitur in 8 gr. 3/30// ♉. Latitudinẽ verò 41 gr. 14/. C autem locum novæ stellæ ad annum Christi 1572 in sidere Cassiopeæ repræsentet; & sit A C arcus distantiæ novæ stellæ à lucida vel suprema Cathedræ: C B verò arcus inter novam stellam & flexuram interceptus: & A B arcus intercapedinis utriusq; fixæ in Cathedra. Sit insuper G polus Zodiaci Boreus, à quo duo Quadrantes descendant in Eclipticam per ante nominatas fixas in A & B constitutas, per A quidem G D: per B vero G F. Unde D F erit arcus Eclipticæ distingvens utriusq; fixæ Longitudinem & A D, nec non B F arcus Latitudinum earundem fixarum. Eodem modo à polo Eclipticæ per locum novæ stellę in C exhibitæ, ducatur Quadrans in Eclipticam, quæ hîc G E erit. Ex quo apparet, locum Longitudinis novæ stellæ esse in E, & D E esse portionem differentiæ Longitudinis novæ à Lucida Cathedræ in A posita: C E verò ostendit arcum Latitudinis seu distantiæ novæ ab Ecliptica. Hisce suppositis, lubet indagare arcum D E, quantum scilicet E, Longitudo novæ stellæ, superet Longitudinem Lucidæ in Cathedra: Nova enim stella s. s. s. Lucidam Cathedræ sequitur, & ulterior est in Longitudine ab Æquinoctio verno. Atq; unà placet quoq; perquirere quantitatem Arcus C E, ut simul constet hujus



novæ ſtellæ ab Ecliptica remotio, quam Latitudinem vocant. Itaq; ut in horum notitiam perveniamus, conſiderandum eſt:

I. Triangulum A G B, cujus duo Latera in polo G juncta cognita ſunt per complementa Latitudinum fixarum, G A. 38 gr 45/30//. G B 41 gr. 14. Eſt etiam angulus, quem dicta Latera complectuntur, cognitus, qui eſt differentia Longitudinis utriusq; fixæ, & metitur eam arcus D F qui eſt 8 gr. 52/. Unde per *Caſum 3. cap.* 7. arcus A B exploratur, quem invenio 6 gr. 12/30//. & eſt diſtantia Lucidæ Cathedrę à flexura Caſſiopeæ, qualem & Tycho cœlitùs per inſtrumenta obſervavit.

II. Angulus quoq; B A G eſt perveſtigandus, cujus tria Latera jam nota ſunt. 1. Latus G A 38 gr. 45/30//. 2. Latus A B 6 gr. 12/30//. 3. Latus G B, 41 gr. 14/. Hinc angulus abſolutâ operatione per Logarithmorum numeros, & per *Caſum 1. cap. 7.* invenitur 110. gr. 1/46//.

III. In Triangulo C A B ad dimetiendum Angulum A, cùm & omnia hujus Latera innoteſcant; 1. A C 5 gr. 19/ diſtantia novæ ſtellæ à Lucida Cathedræ. 2. A B. 6 gr. 12/30//. diſtantia ejusdem Lucidæ à flexura Caſſiopeæ, & 3. C B. diſtantia novæ ſtellæ à flexura, 5 gr. 2/. Idcirco per dictum *Caſum 1. cap.* 7 angulus C A B evadit 51 gr. 9/. Hic angulus à priore B A G ablatus, tanquam pars de ſuo toto, relinquit quantitatem anguli G A C vel C A G 58 gr. 53/.

IV. Progredior ad Triangulum C A G, cujus angulus ad A jam datus eſt, & inſuper duo latera dictum angulum ambientia G A & A C: proinde per *Caſum 3. cap. 7.* datur Latus G C complementum Latitud novæ ſtellæ 36 gr. 15/20//. quo ſublato à Quadrante prodit Latitudo novæ ſtellæ 53 gr. 44/40//. quantitas videlicet arcus C E.

V. Patefactis jam in eodem Triangulo tribus lateribus Angulus quoque D G E ſe ſiſtet: Dantur enim hîc 1. Latus G A 38 gr. 45/30//. 2. Latus G C 36 gr. 15/20//. 3. Baſis A C 5 gr. 19/. Evadit igitur præfatus angulus D G E vel A G C 7 gr. 42/40//. Cùm igitur, ut initio quoq; monitum eſt, nova ſtella Orientalior fuerit Lucidâ in Cathedra Caſſiopeiæ, idcirco differentia addenda eſt Longitudini Lucidæ, ut vides hîc factum.

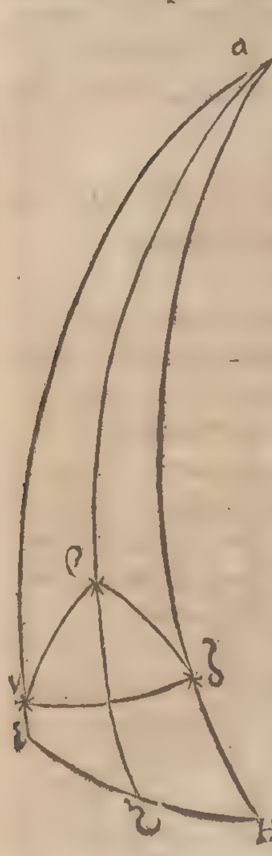
29 gr.	11/	30// ♈	Longitudo Lucid. in Cathedra.
7	42	40	Differentia Longitud. inter novam & Lucidam.
6	54	14 ♉.	

Ergo relinquitur novæ ſtellæ Longitudo per ſolutionem horum Triangulorum in 6 gr. 54/ ♉. & Latitudo ejusdem 53 grad. 45/ Bor. ferè: id quod erat demonſtrandum.

Aliud

Aliud Exemplum.

Hoc Problema quoq; propriâ quadam obſervatione per Radium Aſtronomicum inſtitutâ, illuſtrare lubet. Anno Chriſti 1635. die 25 Februarii, Stylo veteri, poſt 8 veſpertinam, cùm cœlum ſerenum affulgeret, volui explorare ſitum JOVIS tam quoad Longitud. quàm Latitudinem, ut mihi innoteſceret veritas Ephemeridum novarum ex Tabb. Tychonicis ſupputatarum. Hanc igitur obſervationem cum Præſtantiſſ. Dn. GEORGIO Marggrafen/ Liebſtad. Miſnico, Medicinæ Candidato, & Rerum Aſtronomicarum cultore ſolertiſſimo abſolvi, & diſtantiam JOVIS Radio Aſtronomico juſtæ magnitudinis ex chalybe & orichalco affabrè elaborato & ſubtiliter diviſo, cepi à duabus Stellis, quæ cum JOVE videbantur Triangulum Iſoſceles formare. Prior fixa erat Caſtor vel Apollo, hoc eſt ſtella in ſuperiori capite ♊: Poſterior verò erat Boreale genu ſupremum Caſtoris. JUPITER igitur à Caſtore diſtabat 13 gr. 10/ à Boreali verò genu ſupremo Caſtoris 19 gr. 37/ Sint igitur in ſubjecto ſchemate $\alpha \epsilon \zeta \eta$ partes Eclipticæ eædem cum priori Schemate quæ oſtendebantur per literas G D E F. γ ſit locus JOVIS, β locus Caſtoris, & δ locus genu Borei ♊. Primò igitur in Triangulo $\beta \alpha \delta$ διδόμενα ſunt 1. Latus $\alpha \beta$ 79 gr. 58/ Complementum Latitudinis Caſtoris. 2. $\alpha \delta$, 87 gr. 49/. Complementum Latitudinis genu Borei ſupremi Caſtoris. 3. Angulus $\beta \alpha \delta$ quem metitur arcus $\zeta \eta$ 10 gr. 19/. Differentia Longitudinum ſcilicet Caſtoris & ejus genu Borei ſupremi. Emergit igitur Latus $\beta \delta$ 12 gr. 54/30// quod exhibet diſtantiam Caſtoris & ejus genu Borei: Unde patet, hoc latus ſaltem Quadrante unius gradus eſſe minus Latere $\gamma \beta$, quod inventum eſt 13 gr. 10/.



II. In Triangulo $\alpha \delta \beta$ pro angulo $\alpha \delta \beta$ dantur 1. $\alpha \delta$, 78 gr. 49/ Complementum Latitud. genu B. Caſtoris; 2. $\beta \delta$, jam inventum 12 gr. 54/30// Diſtantia Caſtoris à ſuo genu Boreo: & 3. $\alpha \beta$ 79 gr. 58/ complementum Latitudinis Caſtoris. Quocirca Angulus $\alpha \delta \beta$ reſultat 52 gr. 6/50//.

III. Porrò in Triangulo β δ γ διδόμενα sunt: 1. Latus β δ 12 gr. 54/30// Distantia Castoris à suo genu Boreo. 2. Latus γ δ 19 gr. 37/ Distantia Jovis à genu Boreo Castoris. 3. Basis γ β 13 gr. 10/ Distantia Jovis à Castore. Unde innotescit, angulum β δ γ esse 42 grad. 12/12//. Hunc adde Angulo α δ β antea invento, & relinquitur totus Angulus α δ γ 94 grad. 19/2//.

IV. Cæterùm in Triangulo α δ γ pro Latere γ α, notum est 1. Latus α δ 87 gr 49/. 2. γ δ 19 gr. 37/. 3. Angulus α δ γ, 94 gr. 19/2//. Hinc exsistit Latus γ α Complementum Latitudinis Jovis 89 grad. 23/34// & ipsa Latitudo Jovis 0 gr. 36/26// Borea.

V. In Triangulo γ α δ, pro Angulo γ α δ, διδόμενα sunt: 1. γ α, 89 gr. 23/34// complementum Latitudinis Jovis. 2. α δ, 87 gr. 49/. 3. γ δ, 19 gr. 37/. Prosilit igitur Angulus γ α δ 19 grad. 33/34//, quem metitur Arcus ε η videlicet differentia Longitudinis Jovis & genu sequentis Borei Castoris, quæ addita Longitudini stellæ in genu Boreo Castoris, prout ad præsentem annum ex Tabb. Tychonicis eruitur, exhibet Longitudinem Jovis.

Gr.	Min.	Sec.	
4	51	0 ♋	Longitudo genu Borei Castoris ad initium anni Christi 1635.
19	33	34	
24	24	34 ♋	

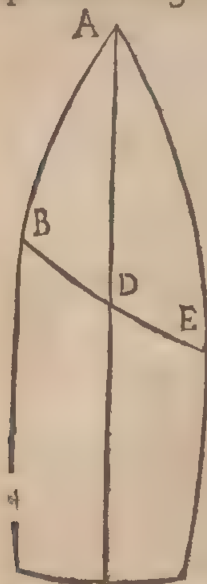
Longitudo igitur Jovis relinquitur in 24 grad 24 min. 34 sec. ♋ Latitudo verò 0 gr. 36 min. 26 sec. Borea. Calculus Copernicæus Locum ♃ ad supra dictum tempus constituit in 23 gr. 52 min. ♋. Latitudinem verò 0 gr. 10 min. Boream. Calculus Tychonicus ex Tabb. Rudolphinis eum statuit in 24 gr. 5 min. ♋ cum Latitudine 0 gr. 41 min. Septentrionali. Quanquam autem hæc nostra observatio propiùs ad calculum Tabularum Rudolphinarum accedat: Tamen cùm in Longitudine differentia trientis gradus occurrat, patet, motum ♃ adhuc aliquâ correctione indigere, quam crebrò institutæ in eo examussim observationes cœlestes suppeditabunt, atq; sic eum omnibus numeris absolutum perficient. In Latitudine nondum differentia Unciæ gradus, sed saltem decima quinta unius pars cum semisse deprehenditur, quæ exigua & tolerabilis est.

COROL-

Corollarium.

Eodem propemodum modo Longitudo ac Latitudo ignotæ ſtellæ eliciuntur, ſi illa in linea recta inter duas ſtellas intercepta, & ſimul diſtantia unius noti ſideris ab ignoto perſpecta fuerit.

Veluti aſſumamus exempli loco ex *lib. 1. progymnaſm. Tychonis, pag. 681. & ſeq* novam ſtellam in Cathedra Caſſiopeæ, quæ fuit intercepta inter Cingulam Cephei, & flexuram Caſſiopeæ, prout id in ſubjecto Schemate aliquo modo delineatum eſt. Nam in eo eſt A polus Eclipticæ. B ſtella in cingulo Cephei, D nova ſtella, F flexura caſſiopeæ. In Triangulo igitur B A E ſunt διδόμενα, 1. Latus B A, complementum Latitudinis Cinguli Cephei 18 grad. 53 min. 2. Latus E A complementum Latitudinis flexuræ Caſſiopeæ 41 gr. 14 min. 3. Angulus B A E ex differentia Longitudinis utriusq; fixæ relictus 8 gr, 15 min. 30. ſec. Proinde per *Caſum 3. cap. 7.* innoteſcit & tertium Latus B E partium 22, min. 41. intercapedinem utriusque ſtellæ exhibens. Porrò ex tribus cognitis lateribus Angulus quoq; A E B, qui ſimul Angulum A E D ſuppeditat, prodibit, per *Caſum 1. cap. 7.* cùm nota ſint tria Latera E A gr. 41. min. 14. complementum Latitudinis flexuræ Caſſiopeæ, B E 22 gr. 41. min. diſtantia Cephei à flexura Caſſiopeæ, tertiò Latus B A 18 grad 53 min. angulo quæſito oppoſitum, quod eſt complementum Latitudinis Cephei. Angulus igitur A E B, vel Angulus A E D, qui hîc unus eſt in E, relinquitur 6 gr. 47 minut. Dehinc in Triangulo A E D, ad indagandum Latus A D quod eſt complementum Latitudinis novæ ſtellæ, dantur 1. E A 41 gr. 14/. 2. E D 5 grad. 2. min. diſtantia novæ ſtellæ à flexura Caſſiopeæ. Deniq; Angulus A E D 6 gr. 57/ jam inventus. Proveniet igitur Tertium Latus A D 36 gr. 15. min. Complementum Latitudinis novæ ſtellæ, adeoq; ipſa Latitudo novæ ſtellæ 53 gr 45/. Tandem in Triangulo D A E nota ſunt tria latera D A 36 gr. 15/. E A 41 gr. 14/. D E 5 gr. 2/. Itaq; patefit etiam Angulus D A E differentiam Longitudinis inter novum ſidus aperiens 1 gr. 8/. Braheus tantùm ponit 1 gr. 1/45//. At calculus rectè ſubductus 6 minuta inſuper addit, ita ut



ita ut verus angulus sit 1 gr. 8/. Quibus sublatis à Longitudine flexuræ, eò quod nova stella fuerit citerior in successione signorum,

G.	M.	S.	
8	3	30 ♉	Longitudo flexuræ Cassiop.
1	8		
6	55	30	

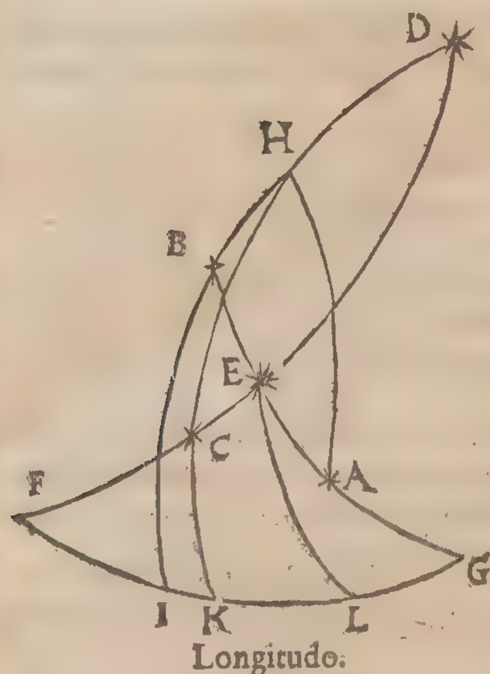
relinquitur Longitudo novæ stellæ in 6 gr. 55/30// ♉ & Latitudo 53 gr. 45/ Borea; ubi Longitudo à priore per sesquiminutum saltem differt, Latitudo verò eadem manet. Tychonis calculus in Longitudine 6 minutis adhuc abundat: Verùm hæc differentia in tali negotio perexigua censenda est, & facilè obrepere potuit in perplexo sinuum calculo.

PROBLEMA XII.

12. *LOcum ignoti Sideris respectu Eclipticæ quoad Longum & Latum per lineas à quatuor aliis stellis secundum Longitudinem ac Latitudinem notis in transversum ductas, hocq; sidus in mutuo contactu intercipientes, demonstrare.*

Accidit quandoq; ut Cometa, vel nova aliqua stella, vel etiam Planeta, à quatuor fixis deducendo circulum magnum per eas & ignotum sidus in mutuo contactus puncto intercipiatur: Id quod vel adminiculo Regulæ, vel fili extensi oculoq; admoti explorari poterit. Quotiescunq; igitur hoc fit, toties solius calculi Trigonometrici beneficio Longitudo ac Latitudo ignoti sideris quamproximè investigari poterunt. Advertendum autem est diligenter, ut notæ stellæ cum ignota in uno recto tramite præcisè coincidat, & ut correctiora fixarum loca constent, alioquin facilè à vero loco sideris aberrabitur.

Ad illustrandum hoc problema assumam demonstrationem M. Michaelis Mœstlini, quâ ille in locum verum novæ stellæ ad annum Christi 1572 effulgentis provenit, quamq; Braheus *lib. 1. progymn pag. 550.* ex eodem repetiit & ad sua correcta affixarum loca revocavit, ita ut infra sextantem gradus veram novæ stellæ Longitudinem ac Latitudinem citra operosum instrumentorum apparatum assecutus fuerit. Quamobrem consideretur subjectum Schema à præfato Mœstlino ita accuratè delineatum



In hoc Schemate sit H polus Boreus Eclipticæ, F G portio Signiferi præsenti instituto sufficiens, in cuius medio interlabatur E nova Stella, cũ & ex polo Boreo H demittantur circumferentiæ ad quatuor fixas, quarum loca secundum Tychonicam restitutionem ad annum 1572. ita sese habent:

Longitudo.	Latitudo.
A. Quinta Stella Cassiopeæ, quæ genu dicitur, gr. 11 m. 57. ♉.	gr. 46. m. 22.
B. Octava Cephei, quæ aliàs est sinistrum brachium eius gr. 27. min. 35½ ♈.	gr. 62. m. 35½
C. Duodecima Cassiopeæ seu Lucida Cathedræ gr. 29 min. 11½ ♈.	gr. 51. m. 14½
D. Vigesima Ursæ majoris, vel in lucido pede Ursæ, gr. 13. min. 34 ♌.	gr. 29. m. 51½

Porrò duæ circumferentiæ H B & H C descendant in I & K: continuentur etiam D C & B A in puncto Zodiaci F & G. Tandem ex E ducatur E L ad rectos ipsi F G.

Praxis solvendi Triangula, quæ ad pervestigandum Latus L E & E L adeoque Longitudinem ac Latitudinem novæ Stellæ indagandam requiruntur:

I. In Triangulo BHA data sunt: B H Complementum Latitudin. sinistri brachii Cephei, quod est gr. 27. min. 24. sec. 30.

HA complementum Latitudinis genu Cassiopeæ gr. 43. min. 38.

BHA. differentia Longitudinis utriusque graduum 14. min. 26. sec. 30. Non igitur *per casum 3. cap. 7.* ignorari poterit Latus BA gr. 18. min. 30. sec. 34.

II. In eodem Triangulo pro HBA datis omnibus Lateribus, datur quoque *per Casum 1. cap. 7.* angulus HBA grad. 146. min. 27. sec. 20. Quo rejecto è duobus rectis, h. e. semicirculo, notus habetur angulus in Triangulo BGI ad B, 33 gr. 32 min. 40 sec.

III. In Orthogonio BIG pro angulo BGI & Latere GI dantur BI gr. 62 min. 35. sec. 30. Latitudo sinistri brachii Cephei.

IBG Angulus modò inventus 33 gr. 32 min 40 sec.

I, Angulus rectus.

Ergo per *Casum 3. cap. 6.* invenitur angulus BGI 75 gr. 15 min. 50 sec. Et per *Casum 6. cap. 6.* ex iisdem datis elicitur Latus GI 30 gr. 28 min. 47 secund. quâ portione additâ ad Longitudinem Stellæ Cephei in I, emergit Longitudo puncti G 27 gr. 59 min. 17 sec. ♉.

IV. Dehinc in Triangulo CHD *δεδόμενα* sunt pro DC & HCD:

HC 58 gr. 45 min. 30 sec. Complementum Latitud. Lucidæ Cathedræ.

HD 60 gr. 8 min. 30″. Complem. Latit. sinistri pedis Ursæ majoris.

CHD 164 gr. 22 min. 30 sec. differentia Longitudin. harum Stellarum.

Ergo datur { Latus DC 75 gr. 19 min. 10 sec. *per casum 3. cap. 7.*
HCD, 60 gr. 16 min. 52 sec. *per casum 1. cap. 7.* }

V. In Orthogonio CFK pro angulo ad F & Latere FK inventa sunt
KC 51 gr. 14 min. 30 sec. Latitudo lucidæ Cathedræ.

FCK gr. 60. min. 16. sec. 52. Angulus æqualis verticali suo HCD jam pervestigato.

K rectus 90 graduum.

Ergo per *casum 3. cap. 6.* producitur Angulus CFK 57 grad. 3 min. 53 sec. & per *casum 6. cap. 6.* innotescit etiam Latus FK 53 gr. 47 min. 44 sec. Quod subductum à Longitudine loci K respondente loco stellæ in Cathedra Cassiopeæ,

Gr.	Min.	Sec.	
389	11	30	Longitudo lucidæ Cassiopeæ à o ♈ adjecto integro circulo.
53	47	44	Latus FK.
335	23	46	

Relinquit

Relinquit Longitudinem puncti F à principio Æquinoctii Verni numerati in 5 gr. 23/46//X.

Deinde si hæc conquisita Longitudo à prius invento loco in G subducatur, reliquus erit arcus FG

Gr.	Min.	Sec.	
417	59	17	Longitudo puncti G supra in Triang. 3 inventa.
335	23	46	Longitudo puncti F.
82	35	31	Latus adjacens FG.

VI. In Triangulo FEG nota sunt:

1. Angulus G 75 gr. 15 min. 50 sec.
2. Angulus F 57 gr. 3 min. 53 sec.
3 Latus FG 82 gr. 35 min. 31 sec.

Proinde datur Latus EF per *casum 11. & 12. cap. 7.* grad. 73. minut. 39. sec. 14.

VII. Tandem in Rectangulo FEL pro LE & FL investigata sunt:

EFL gr. 57 min. 3 sec. 53.
EF gr. 73 min. 39 sec. 14.
FLE Rectus.

Itaq; per *casum 1. cap. 6.* manifestatur Latus LE 53 gr. 38 min. 42 sec. Latitudinem novæ Stellæ exhibens. Insuper per *casum 8 eiusd. cap.* datur quoque Latus FL 61 gr. 39 min. 16 sec. Quocirca Latus FL differentia Longitudinis Stellæ novæ à puncto F addita Longitudini puncti F antea inventæ ostendit Longitudinem novæ Stellæ quæsitam.

Gr.	Min.	Sec.	
335	23	46	Longitudo puncti F
61	39	16	
397	3	2	Abjecto igitur Integro circulo, remanet Longitudo novæ stellæ in Signifero, apud 7 gr. 3 min. ♉ cum Latitudine 53 gr. 39 min. Borea.

Atq; hoc pacto in Longitudinem ac Latitudinem novi Sideris perventum est, à prioribus locis non adeo multum diversam, utpote qui Longitudinem novi jubaris ad 8 scrupula saltem excedit, in Latitudine verò 6 scrupula deficiunt: quæ differentia est perexigua, & inde oritur, quod hæ stellæ non satis exactè ac in debito puncto cum nova Stella coinciderint. Nam quò exactius est mutui illud punctum contactus in transversum ductum, eò exactior quoq; proveniet Longitudo ac Latitudo ignoti Sideris.

PROBLEMA XIII.

DAtam Altitudinis Lunæ Parallaxin ab Horizonte, in Parallaxin Longitudinis & Latitudinis distribuere.

Si Phœnomenon aliquod in sublimi positum non tantùm è superficie terræ, verùm etiam ex centro eius conspici posset, certum est, quod non eundem utrobiq; monstraret locum; siquidem hæ duæ lineæ visuales ex centro & superficie terræ ductæ, diversitatem aliquam aspectus afferrent. Cum igitur nos cœlum & citimum nobis Planetam Lunam ex superficie terræ intueamur, hinc aspectus inter superficiem & cētrum Terræ diversitas (quam Parallaxin Græci vocant) oritur, ita ut Luna antequam ad nonagesimum Eclipticæ gradum perveniat, semper ob hanc depressior quàm revera est, conspiciatur: & is angulus quò major fuerit eò res visa terris propinquior est, quò verò minor, eò remotior est ab illa: Nam propinquitas Sideris ad centrum terræ Parallaxin efficit.

Quando igitur Parallaxis alicuius Phœnomeni est sensibilis, tunc quoque distantia eius à tellure, & magnitudo ἀποδεικτικῶς inde deduci queunt; sicuti modum huius rei diligenter inculcarunt Regiomontanus, *in Problem suis sedecim, de Cometæ magnitudine, & de loco eius vero*, quæ observationibus siderum Hassiacis annexæ sunt, & illustrantur à Tychone, *lib. 2 progymnasm. à pag. 144 ad 158.* Thaddæus Hagecius, *in Dialexi renovata Diggesei*, ex qua hāc doctrinam repetiit Braheus, in *lib 1. Progymnasm. à pag. 664 ad pag. 671.* & Christianus S. Longim. *lib 2. Sphæricor. cap 10. Problem. 1. & seqq.* quos Astronomiæ Studiosi consulant.

Cæterùm cùm in Luna omnium maximè notabilis Parallaxeos ratio, quia hæc terris proxima ad eius semidiametrum, valde perceptibilem aspectus inter superficiem & centrum terræ diversitatem obtineat, adeo ut Parallaxes integro gradu majores quandoq; admittat, quæ in Solaribus Eclipsibus ad inveniendum intervallum inter veram ac visam Conjunctionem cognitu sunt necessaria: idcirco hic succinctum modum rectè distribuendi Parallaxes Lunæ secundum Longitudinem ac Latitudinem proponam, præsertim cùm non sim nescius, sæpe ob difficultatem enucleandi Parallaxes hanc nobilem Astronomiæ partem à multis negligi.

gligi. Diversi quidem artifices antehac aliis atq; aliis compendiis Astrophilos juvare voluerunt: Ptolemæus, *lib.6. Operis magni*, ubi tradit, quomodo Conjunctio Luminarium visibilis definienda sit, delineationem varietatum, quæ fit in Parallaxibus reliquit. Reinholdus *in Tabulis Pruten.* complures Tabulas Parallaxis seu differentiæ aspectus ad diversas Latitudines locorum construxit, quibus Astronomiæ Studiosum levare voluit. Verùm ingeniosorum operâ in parte proportionali investiganda nimis fatigavit: idcirco nobiliss. Tycho, *lib. 2. Progymnasm. pag. 37.* & *lib. 1. Progymnasm. pag. 133.* Astronomiæ Studiosos ad Triangula revocavit, quæ hoc in loco etiam Copernicus, *lib. 4. Revolutionum cœlestium, cap. 26.* commendat. Quamobrem operæ precium me facturum spero, si simplicem & planam aliquam viam aperuero, citra ambages in Parallaxin Longitudinis & Latitudinis circiter Conjunctionis Eclipticæ tempus cum Sole pervenire liceat. Proinde requiritur ad hunc calculum rectè instituendum Altitudo Luminarium ab Horizonte, & Angulus Eclipticæ cum verticali, nec non Parallaxis Altitudinis ☽æ à ☉e. Sine diagrammate autem, ut brevitati studeamus, atque hanc sectionem contrahamus, hoc negotium pertractabimus. Primùm angulus Eclipticæ cum verticali innotescit ex dato angulo Eclipticæ & Horizonti, nec non distantia ☉is à puncto Orientis vel Occidentis. Exempli gr. Sit per *Problema quartum* inventus Angulus Eclipticæ & Horizontis 4 gr. 58 / & distantia ☉is à puncto Occidentis 20 gr. 9 /: Hinc igitur *per casum 2. cap. 6.* conquiritur angulus Eclipticæ cum Verticali 49 gr. 49 min. Jam restat arctior Triangulus Rectangulus solvendus, qui ob crurum brevitatem, quasi esset Rectilineus, citra sensibilem differentiam tractari potest: Nam maximùm eius Latus vix unum exæquat gradum. Dato igitur uno angulo Eclipticæ cum Verticali præter Rectum, datur quoq; Angulus alter & Latus angulo oppositum, quo Parallaxis Altitudinis comprehenditur, quæ 1 gr. seu 60 min. æstimatur: Hinc etiam dantur Sinus Recti reliquorum angulorum in ea proportione, qua 60. minuta Radio seu integro sinui respondent, præsertim cùm ☽a in Eclipsibus ☉aribus nunquam sesquigradum excedat Parallaxis Altitudinis ☽æ & Solis ex peculiaribus Tabulis *Sectioni 2. huius Pædiæ* insertis desumitur. Quapropter, si Logarithmum Anguli Eclipticæ cum Verticali addideris Logarithmo Parallaxeos Altitudinis ☽æ à ☉e, quasi Scrupula prima ac secunda essent gradus ac minuta, tunc emerget Logarithmus Parallaxis Latitudinis ☽æ. Rursus, si Anti-

 logarith-

logarithmum Anguli Eclipticæ cum Verticali Log–o eius Parallaxis Altitudinis ☽æ adjeceris, obtinebis Logarithmum Parallaxis Longitudinis Lunæ.

Praxis.

18985 Log–us Parallaxis Altit. ☽ à ☉ in 55. 48/ assumtus, quasi est
26908 Log–us Anguli Eclipt. & Vertic. 49 gr. 49/. (sent gradus.

45893 Log–us 39 gr. 12 min.

Parallaxis igitur Latitudinis ☽æ est 39 / 12 //. Pro gradibus enim minuta, & pro Scrupulis primis secunda substituo.

18985
43814 Antilog–us anguli Ecl. & Vert.

62799 Log–us 32 gr. 15/.

Ergo Parallaxis Longitudinis ☽æ datur 32/15//.

Alius adhuc modus sequetur in altera sectione huius Pædiæ, ubi agetur de Eclipsigraphia. Et qui uberiorem huius rei demonstrationem requirit, illum præter autores præfatos, jubeo adire *lib. 12. primi Mobilis* Magini, ubi diversos inveniet modos cum demonstratione & figuratione Sphærica competente explorandi Parallaxin Longitudinis & Latitudinis, & *cap. 9. Astronomiæ partis opticæ* Keppleri, *seu Paralipom. ad Vitellionem*, ubi novam ex hisce fundamentis extruxit Tabulam Parallacticam, quæ investigationi Parallaxis Longitudinis ac Latitudinis ☽æ deservit. Verùm Astrophilus æquè citò per hoc compendium, atque per istam Tabulam, Parallaxin Altitudinis ☽æ, secundum Longitudinem ac Latitudinem, distribuere poterit.

PROBLEMA XIV.

Crepusculorum magnitudinem in quavis Sphæra obliqua indagare.

Petrus Nonius, Lusitanus, celebris superioris ætatis Mathematicus, eruditissimum librum de crepusculis, in quo ferè omnia, quæ de crepusculis dici possunt, ex *Albazeni*, & intimis Matheseos atque Optices penetralibus accuratè tractata & demonstrata sunt, vulgavit. Ex hoc autore complures Mathematici suas propositiones de Crepusculis desum-

desumserunt, inter quos etiam inveniuntur *D. Ambrosius Rhodius*, & *Christophorus Clavius*: nam ille Propositionibus 18. suæ Opticæ annexis, hic verò in suo commentario ad *caput 3. Sphæræ Io. de Sacrobosco*, quatuor atque viginti propositionibus materiam de crepusculis scitu necessariam complexus est. Qui igitur in hac pulcherrima de Crepusculis scientia aliquid proficere gestit, ille hosce perlustret autores, quibus & *Io. Keppleri Optica paralipomena* addi possunt. Nos quidem omnes propositionum casus ad calculum Logarithmorum revocare possemus: at quia nimiùm hæc Pædia excresceret; idcirco tantùm hîc maximè utile Problema, de magnitudine Crepusculorum in horizonte obliquo agens, enucleabimus. Ita igitur hoc secundum placita Nonii & calculum Logarithmorum expediri potest. Cùm crepusculum sit lux dubia, quæ ante ortum Solis & post eius occasum incipit, ideoq; sciendum est, quod quando Sol, secundum communem opticorum sententiam, gradibus octodecim infra Horizontem deprimitur, pars aeris à vaporibus tunc condensata per Solis radios illuminetur, atque ad quantitatem huius moræ crepusculum efficiatur. Proinde primùm hîc tenenda est profunditas ☉lis infra Finitorem, quæ constituitur 18 graduum Deinde quoque inclinatio Æquatoris ad Horizontem seu Altitudo Æquatoris noscenda est; deniq; locus ☉is eiusque Declinatio: hæc enim tria præcognita constituunt triplex latus & Triangulum Sphæricum Obliquangulum, quod *per casum* 1. *cap.* 7. solvendum est. Angulus, qui prodit, constat ex arcu semidiurno, & arcu quantitatis crepusculi in signis borealibus: quocirca arcu semidiurno ☉lis (qui per *problema* 2. elicitur) ab eo subtracto, relinquitur arcus crepusculi, isq; per *Tabulam part.* 1. *Pædiæ, sub lit. G.* in tempus conversus ostendit Longitudinem Crepusculi, cuius principium provenit, si hanc Longitudinem à tempore ortus Solis subtraxero: Nam residuum initium diluculi matutini exhibet: eadem quoq; Longitudo addita tempori occasus Solis finem crepusculi vespertini manifestat. Exemplis res fiet illustrior. Hoc mense Martio anni 1635. quo hæc scribo, solenne Paschæ festum incidit in diem 29 Martij, quo Sol sub auroram est in 18 gradu ♈ ferè, & Declinatio eius Borea per *problema* 1. invenitur 7 gr. 5 min. proximè: per *problema* verò *secundum* differentia Ascensionalis 9. gr. 40. min. & arcus semidiurnus 99. gr. 40 min. tempusq; ortus Solis circiter horam 5 min. 19 sec. 20. Proinde tria dantur, ex quibus magnitudo Crepusculi in signo hoc Boreali & Sphæra nostra obliqua pervestigari potest I. 36 gr. 30/. Inclinatio Horizontis ad Æquatorē seu distantia polorum, II. 82 gr. 55/ Complementum Declinat.

clinat. ☉ in 18 gr. ♈. III. 108 gr. 0/ excessus depressionis Solis sub Horizonte. Ergo per *casum* 1. *cap.* 7. datur Angulus & arcus Crepusculi cum arcu Semidiurno ☉ complicatus 133 gr. 44/40//. A quo arcus Semidiurnus antè inventus subductus relinquit arcum crepusculi 34 gr. 4/40//. qui dat 2 horas, 16 min. 19 secunda; atque ita principium Crepusculi matutini cadet in 3 hor. & 3 min. post mediam noctem. Porrò in signis Australibus eadem retinentur Latera, nisi quod Tertium efficiat Complementum Arcus depressionis ☉lis sub Horizontem, quod hîc est 72 grad. 0 minut. quodq; angulus, qui provenit, in tempus conversus statim indigitet principium diluculi matutini, idemq; tempus à duodecim horis subtractum finem diluculi vespertini significet, ita ut facilior sit modus inveniendi Longitud. Crepusculi in Australibus, quàm Septentrionalibus signis. Ponatur enim e. g. locus ☉lis in 2 gr. ♓. cuius affertur Declinatio 10 gr. 48/ Australis, atque ita constant tria latera; 1. distantia polorum 36° 30. 2. Complem. Decl. ☉ in 2 gr. ♓ 79 gr. 12/. 3. Complementum depressionis ☉lis sub Horizontem 72 gr. Hinc prodit angulus quæsitus & arcus Crepusculi matutini 74 gr. 16/20//. qui efficit 4 hor. 57/. ita ut circa hoc tempus manè die 10 Febr. incipiat crepusculum. Idem tempus 12 horis demptum, relinquit 7 horas & 3 min. quo tempore pomeridiano desinit crepusculum vespertinum. Atque hoc modo in partibus Sphæræ obliquæ Longitudo crepusculi extra signa Æquinoctialia indagari potest. Facilior autem est operatio, Sole signum Æquinoctiale, vel 0 ♈. vel 0 ♎ occupante: quando enim tunc Logarithmus distantiæ polorum à Logarithmo arcus profunditatis ☉ sub Horizonte subtrahitur, fit residuus Logarithmus Arcus horarii Crepusculi.

E. g. 117436 Log—us 18 gr. profunditatis Horizontis.
51949 Log—us distantiæ polorum.
65487 Log—us 31 gr. 18/. qui dat 2 horas & 5 minuta Longitudinem Crepusculorum, circa diem Æquinoctii verni & autumnalis in Horizonte Stetinensi.

Ex hisce principiis etiam patet, quod quando Sol appropinquat signo ♊ & in Tropico ♋ versatur, usq; dum signum ♌ perambulaverit, totâ nocte claritas crepusculi apud nos deprehendatur, & nunquam id desinat, ob quam causam etiam ☿ apud nos æstivis diebus ægrè videri potest, nimirum ob nimis diuturnam crepusculorum claritatem: contrà verò autumno inclinante & hiemis tempore ob brevitatem crepusculorum

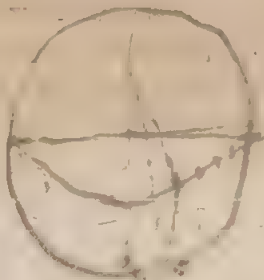
lorum sub aspectum cadet,&à nobis cœlo sereno observari potest. Et tantùm de hoc nobili problemate.

PROBLEMA XV.

ARcus horarios tàm in Horizontis plano quam in Verticali circulo ad quamvis Regionum Latitudinem supputare; & utrinque ad horum numerorum intervalla Solaria cum horarum indice convenienter componere ac collocare.

Suprà, *in problemat. 8.* modum, quo data Gnomonis & umbræ mensura altitudo Solis nec non tempus horarium eliciuntur ostendi: in hoc autem exponam rationem, quâ Sciatherica communia tam Horizontalia quàm verticalia seu muralia, rectè ex doctrina Triangulorum formanda sint. Nam in Gnomonica præstant Solaria, & in his sciatherica communia, ubi Stylus axi mundano debet esse conformis: Lineæ verò horariæ sunt circulorum horariorum per vicesimas quartas partes Æquatoris, & utrumque Mundi polum incidentium sectiones, cum plano dato communes. In utroque autem Horologiorum sufficit unum tantummodò Quadrantem supputasse: nam alter eodem modo distribuitur. Cuilibet verò horæ intervallo 15 gradus competunt, qui tam in Horizontali quam Verticali Sciatherico ad spacia singularum horarum pervestiganda sunt attendendi.

Itaque primùm ad investigandum arcum Horizontalem, pro hora 11. antemeridiana & 1. pomeridiana, in Triangulo Rectangulo Sphærico dantur 15 gradus ex hypothesi: angulus alter 36 gr. 30/. utpote Æquatoris in nostro loco inclinatio ad Horizontem: Tertius angulus autem est Rectus. Ergo per *casum 10. cap. 6* invenitur Latus adjacens, quod arcum Horizontalem horæ undecimæ antemeridianæ & primæ pomeridianæ respondentem præbet.



131696 + Meſolog—us 15 gr. intervallum uni horæ à meridie congruum. (30 min.

21833 Antilog—us Altitud. Æquatoris Stetinenſis 36 grad.

153529 + Meſologus lateris quæſiti 12 gr. 9/. quæ diſtantia eſt horæ 11. ante meridiem, & 1. poſt meridiem arcus quæſitus.

Porrò eodem modo ſuppoſito arcu pro duabus hor. 30 gr. ex hypotheſi & priore angulo retento provenit intervallum pro duabus horis

54931 + Meſolog—us 30 gr. pro 2 horis.

21833 Antilog—us Altit. Æquator.

76764 + Meſolog. 24 gr. 54/ & tantus eſt arcus Horizontalis deſideratus pro hora 10 antemerid. & 2 pomeridiana. Et ſic in cæteris ſingulis vicibus arcum Æquatoris inter Meridianum & Ortum aut Occaſum interceptum addendo 15. gradus eſt progrediendum, ad abſolvendum integrum Quadrantem arcuum Horizontalium.

Cæterùm cum volueris Arcum Horarium Circuli Verticalis inter Meridianum & datum quemlibet horarium circulum comprehenſum in Sciatherico verticali dinumerare, eodem modo illum, ut antè, invenire poteris, ſi ſcilicet pro altero angulo Altitudinis Æquatoris ipſam poli Elevationem quæ eſt 53 gr. 30/ aſſumas: nam demonſtratio intra idem Orthogonium *caſu 10. cap. 6.* continetur. Retentis enim in Verticali ſeu murali Horologio 30 gr. duabus horis reſpondentib. prodibit interſtitium horarium pro hora 10. antemerid. & 2 pomerid. in Solari Verticali.

54931 + Meſolog—us 30 gr.

51949 Antilog—us ſublimitatis poli Stetinenſis 53/30//.

106880 + Meſologus arcus pro 10 h. ant. & 2 pom. 18 gr. 57 min.

Operatio pro interſtitio trium horarum.

0 + Meſolog—us 45 gr.

51949 Antilog—us Elev. poli Stetin. 53 gr. 30.

51949 + Meſolog—us pro tribus horis à meridie, cui reſpondent 30 gr. 45/ proximè.

Et ſic in reliquis eſt pergendum, donec 6 horarum ſpacia computata eruantur. Et ex hoc fundamento ad omnes poli Elevationes interſtitia horaria elici poſſunt. Nunc autem hîc Tabellam peculiarem ad Elevationem poli Stetinenſem pro utroque Sciatherico ſubjungam, ut intervalla horaria in promtu ſint.

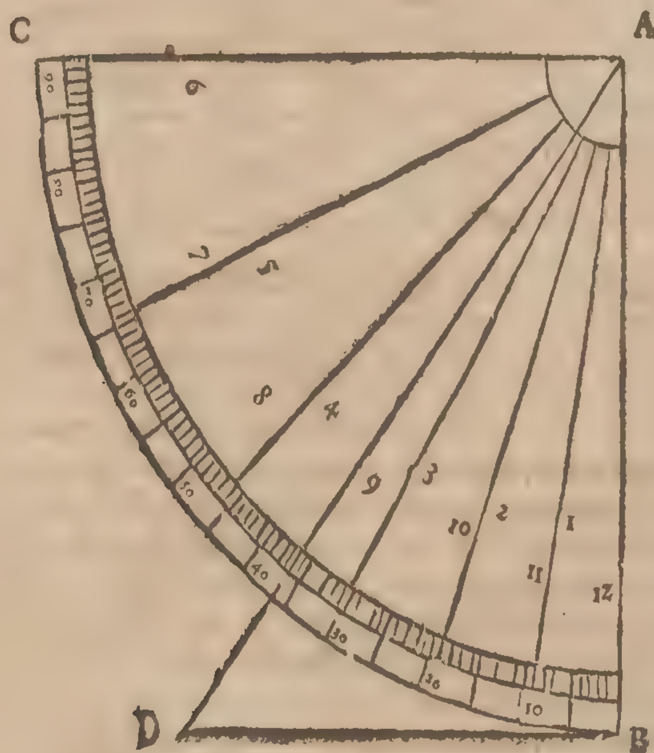
Tabella pro intervallis horariis cum suis differentiis in Sciatherico tam Horizontali quàm Verticali, Elevationi poli Stetinensis accommodata.

Horæ à meridie.		In Horizontali. Arcus in Horizon.		In Horizontali. Differentia		In Verticali. Arcus in muro.		In Verticali. Differentia.	
A M.	P. M.	°	′	°	′	°	′	°	′
12	12	0	0			0	0		
11	1	12.	9	12	9	9	3	9	3
10	2	24.	54	13	43	18	57	9	54
9	3	38.	48	13	54	30	45	11	48
8	4	54.	19	15	31	45	51	15	6
7	5	71.	34	17	15	65	45	19	54
6	6	90	0	18	26	90	0	23	15

Supputatis nunc ad nostræ Civitatis Latitudinem Horizontalibus atque Verticalibus horarum interstitiis, facilè quoque erit Solaria utriusque generis, sive parva sive magna per horas suas describere: nam in subjecto Quadrante ABC ostendit AB lineam Meridianam: AC verò lineam horæ 6. refert. Confecto igitur hoc Quadrante Arcum AC in 90 particulas æquales distribue, à signo B versus C progrediendo, & ex præmissa Tabula arcus horarios pro expedito horologio vel Horizontali vel Verticali excerpe, atque ad terminum definitum à centro A rectam educito lineam, sicut ex subjectis figuris utriusque Horologii, & Horizontalis & Verticalis, mechanicè factis patet, cuius fabricam solertia Astrophilorum facilè assequetur. Videt enim hîc ad quamlibet signatam horarum distinctionem ex horologii centro descriptas esse lineas suis convenientibus numeris ornatas à quibus factis tandem Stylus, horarum index, ex materia conveniente fabricatus, erigitur, & ad modum lineæ AD subtensæ disponitur, nec non juxta Longitudinem ipsius BD perpendicularis super Solarii faciem elevatur: Stylus enim vel gnomon aut umbilicus

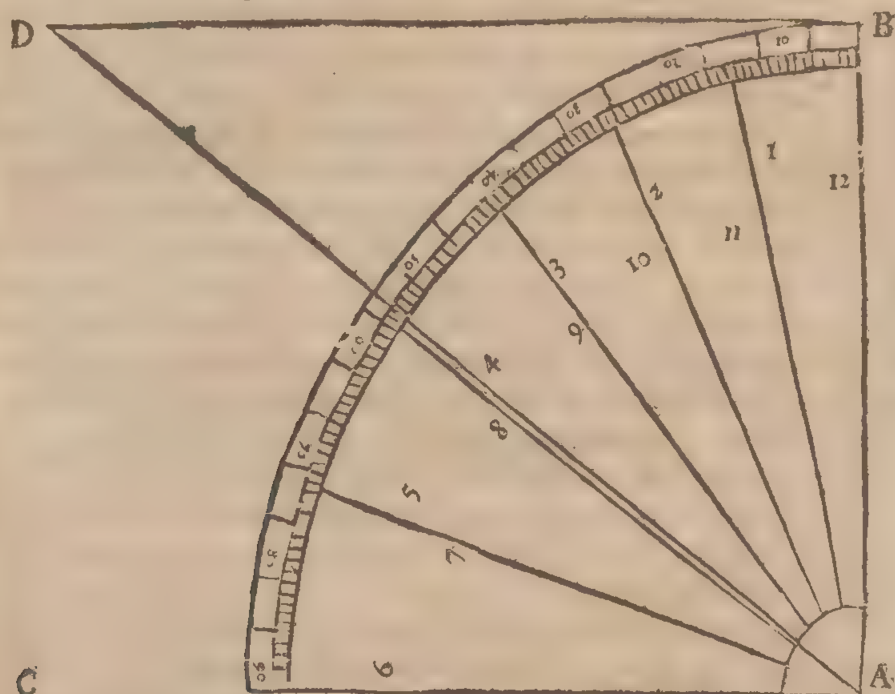
Sciatherici dispositionem axis mundani sequitur. Hinc in horizontali Solario Stylus in Septentrionem Elevationi poli ad planum Horizontis respondentem verget: in murali verò Stylus à pariete in meridiem tendit, per angulum Altitudini Æquatoris competentem. Styli quoque Longitudo hîc arbitraria esse potest. Reliqua problemata, quæ ad Gnomonicam spectant, hîc velle persequi, instituti nostri ratio non permittit, quæ hoc tantùm intendit, ut Astrophili in aliquot problematibus amplissimum Canonis Logarithmorum usum perspiciant, in quorum gratiam adhuc unicum problema adjicemus.

Figura Sciatherici Verticalis, ad Elev. poli 53. gr. 30. min.



Figura

Figura Solarii Horizontalis, ad Elev. poli 53 gr. 30. qualis eſt proximè Stetinenſ.



PROBLEMA XVI & ultimum.

Datis duobus locis vel ſolâ Longitudine, vel Latitudine, vel utrâq; differentibus, datur eorum itineraria quoq; in milliaribus Germanicis diſtantia, & vice verſa.

Quæ loca ſolâ Longitudine differunt, & ſub Æquatore ſita ſunt, illorum diſtantia ſine calculo Trigonometrico facili negotio conquiri poteſt: ſubductâ enim minore Longitudine à majore, & differentiâ in milliaria Germanica converſâ, ita ut uni gradui uſitato modo 15 milliaria tribuantur, relinquitur diſtantia itineraria. E. g. Taprobana, Summatra Inſula, prope Indiam Orientalem ſub Æquatore ſita, habet Longitudinem, ſecundum Clavij Catalogum locorum, 137 gr. 10 min. Divi Thomæ Inſula in Africa itidem Æquatori ſubjacens habet Longitudinem ſecundum eundem 33 gr. 10 min. Differentia utriuſque Longitudinis eſt

104 part. 0 min. quæ per 50 in milliaria ducta efficiunt 5560 Leucas Germanicas: Tantaque est distantia inter has duas Insulas.

Sin verò loca extra Æquatorem sita sunt, & solâ Longitudine differunt, Latitudine verò conveniunt, nascitur hinc Triangulum Isosceles Sphæricum: nam crura sunt æqualia, Complementa scilicet Latitudinum similium. Hoc autem Triangulum facilioris operationis ergo in duo Rectangula æqualia dispescitur: sicuti enim sese habet angulus Rectus 90 gr. ad crura æqualia: ita quoque dimidia differentia Longitudinis ad dimidiam distantiam itinerariam, per *casum primum, cap 6.* quæ duplicata quæsitam exhibet distantiam. Veluti Compostella Hispaniæ & Constantinopolis Thraciæ secundum nostrum locorum Catalogum, *parti 1. Ephemerid. pag. 67. & seq.* insertum eandem habent Latitudinem, videlicet 43 gr. 0 min. Differunt autem Longitudine per 43 gr & 15 min. Dimidia Longitudo est 21 gr. 37/30//. Ergo operatio ita instituenda:

31286 Log–us 47 gr. Complem. utriusque Elev. poli.
99823 Log–us differentiæ Longitudin. bisectæ 21 gr. 37/30//.

131109 Log–us arcus 15 gr. 38/ cujus duplum est arcus quæsitus 31 gr. 16/. qui in milliaria conversus efficit 469, per quæ Compostella à Constantinopoli distat.

Denique quæ Loca Longitudine ac Latitudine simul differunt eorum distantia ad eundem modum investiganda est, sicut supra *problemate 6.* ostensum est, distantiam duarum stellarum ex cognita Longitudine ac Latitudine invenire.

V. g. quæritur distantia itineraria inter Hierosolymam & Stetinum Pomeraniæ ad Viadrum. Longitudo Hierosolymæ in nostro Catalogo locorum invenitur 70 gr. 45 min. Latitudo 32 gr. 10 min. Longitudo vero Stetinensis 38 gr. 45 min. Latitudo 53 gr. 30 min. Data igitur hîc sunt duo latera: 1. 57 gr. 50 min. Complem. Latitud. Hierosolymitanæ. 2. 36 gr 30 min. Complementum Latitud. Stetinensis. 3. Angulus, quem facit differentia Longitudinis, 32 gr. 9 min Prodit igitur, per *casum 3 cap. 7.* Latus partium huc angulo oppositum 31 gr. 14/. 40//. quod dat milliaria Germanica ferè 469. ita ut ferè sit æqualis distantia milliariorum inter Stetinum & Hierosolymam, qualis est distantia itineraria inter Compostellam & Constantinopolim.

Potest autem hîc fieri, quod distantia itineraria quandoq; justo sit major, quàm differentia Longitud. ac Latitudinis indicat, eò quod sæpius ad loca civitatum per ambages & anfractus proficiscendum sit: Longitudo ve-

do verò & Latitudo locorum efficiunt lineam rectam, non tortuosam: hinc plerumq; distantia itineraria Longitudinis & Latitudinis differentiam superat.

Cæterùm, ad modum *problematis* II. inverso ordine Longitudo atque Latitudo alicuius loci ignota proximè investigari potest, si is sit interceptus inter duo loca, quorum Longitudo ac Latitudo certa est, & præterea horum locorũ distantia itineraria. Veluti Stetinum Pomeraniæ Hafniam & Wittebergam interjacet, & medium ferè occupat locum, quippe ab utroque 30 Leucis propemodum recedens. Longitudines & Latitudines Hafniæ & Wittebergæ ex Catalogo locorum notæ sunt. Nota quoque est distantia itineraria inter Stetinum & Hafniam, nec non inter Stetinum & VVittebergam, quæ 30 milliaria efficit. Proinde exemplum hoc ad problema præfatum II. tractatum, exhibet Latitudinem Stetinens. 53 gr. 35 min. Differentiam verò Longitudinis inter Hafniam & Sedinum II minutorum, ita ut Sedinum per II. minuta temporis Hafnia sit Orientalius. Verùm utraque est major: Nam Latitudo Stetinensis est adhuc infra $53\frac{1}{2}$ gr. ut in Corollario problem. 9 ostensum est: differentia verò Longitud. inter utrumq; non est major 8 min. Certum igitur est, quod ex itineraria distãtia, utpote quę plerumq; laxa adsumitur, non adeo accuratè Lõgitudo ac Latitudo locorum indagari queant: ubi verò alius modus non suppetit, nec hic negligendus est, cùm à vera Longitudine ac Latitudine non nimiùm aberret, præsertim si distantia itineraria satis exactè constet. Tantum etiam ex Geographicis de indaganda locorum differentia monuisse placuit. Nunc quoque ulteriùs problematibus Geodæticis, Altimetricis, Stereometricis, & Architectonicis usum Canonis Logarithmorum illustrare potuissem: verùm cùm res sit majoris otij, & peculiarem requirat tractatum; idcirco hoc labore supersedebo, & ad alteram sectionem hujus continuatæ Pædiæ Astronomicæ me conferam, ne paulò alieniora ab Ephemeridum instituto hîc tractasse videar. Subjungam tamen prius Canonem Logarithmorum, utpote qui Calculo Astronomico mirificè deservit, illumq; egregiè levat. Ad hunc enim Astrophilus nostros numeros revocatos esse perspiciet, & ex iis Problemata hæc 16. solvere discet.

Supplemen-

Supplementum huius pagellæ ex observatione Eclipsis Lunaris ad annum Christi 1635, diem 21. Febr. St. Vet.

NE pagella hæc, amice Lector, vacua relinquatur, placet hîc collationem instituere calculi Eclipsis ☽ ex Astronomia Danica & Tabb. Rudolphin. cum observatione nostra. Itaq; ut discrimen hoc temporarium ex diverso æquandi modo, in quo Kepplerus à Tychone & Severino discedit, resultans deprehenderem, apparitioni totalis Eclipsis ☽ ad præfatum diem 21 Febr. Anni 1635 invigilavi: cumq; cœlum tunc esset serenissimum, & initium obscurat. ☽ ob declivem ☽ situm visu difficilimum; iccircò in principium totalis defectionis ☽ eò attentior fui. Circa hoc tempus cepi altitudinem cordis ♌ Quadrato Geometrico 41 gr. 13/. ⊙ tempore æstimati initii totalis deliquii versabatur in 13 gr. 11/ ♓. Hinc emergit Ascensio eius Recta 344 gr. 30/. Cùm igitur nota essent hæc tria data: 1. Altitudo Æquatoris 36 gr. 30/. 2. Complementũ Declinat. Cordis ♌ 76 gr. 16/. 3. Complementum Altitudinis cordis ♌, 48 gr. 47/; hinc ad modum *problem. 5. pag. 85.* dabatur tempus à meridie 8 hor. 27/: quo tempore initium totalis obscurationis ☽ accidisse certò infero. Idem tempus etiam ex nostræ Eclipsigraphiæ Tabulis, fundamentis Tychonicis ☽ aribus, *lib. 1. progymn. & Astronom. Danicæ* superstructis colligitur, sicut exercitatus Astrophilus idem tempus nostra præcepta sequens rectè operando accipiet. Kepplerus in suis Ephemeridibus hoc tempus, reductione ad Meridianum Stetinensem factâ, rejicit in horam 7. min. 22. qui calculus ob diversitatem Æquationis in 5 minutis deficit. Ex nostra tamen observatione manet differentia Longitudinis inter Uraniburgum & Stetinum vetus Pomeraniæ, in nostro Catalogo civitatum expressa, 8 minutorum. Quod colorem hujus Eclipsis attinet, eum cinereum quidem Kepplerus in suis Ephemeridibus esse voluit; at ☽ sanguineo colore erat prædita, & ob decliviorem positum clarè rubebat: postea verò quò longiùs ascendebat, eò magis ad cinereum inclinabat colorem, præsertim in limbo Septentrionali; siquidem ☽ in nostro Horizonte non adeo erat alta, ut Dn. Kepplerus opinatus est. Reliquas Observationes etiam lubens posthac tecum, B. L. communicabo.

TABULA

TABULA
SEU
Canon Logarithmorum,
EX INVENTIONE ILLUSTRIS VIRI,
JOANNIS NEPERI,
Baronis Merchistonij, &c.
Scoti.

Gr.0. Log 90. Antilog.							
Min.	Logarithmi	Pro 10 //	Mesologar. +	Pro 10 //	Logarith	Diff	
0	Infinitum		Infinitum		0	0	60
1	814257	11553	814257	11558	0	0	59
2	744942	6758	744942	6758	0	0	58
3	704396	4795	704396	4795	0	0	57
4	675627	3719	675627	3719	0	0	56
5	653313	3039	653313	3039	0	0	55
6	635081	2569	635081	2569	0	0	54
7	619666	2229	619666	2229	0	0	53
8	606313	1963	606313	1963	0	1	52
9	594535	1756	594534	1756	1	0	51
10	583999	1555	583998	1555	1	0	50
11	574468	1450	574467	1450	1	0	49
12	565766	1334	565766	1334	1	0	48
13	557762	1236	557761	1236	1	0	47
14	550351	1150	550351	1150	1	0	46
15	543452	1075	543451	1075	1	0	45
16	536998	1010	536997	1010	1	0	44
17	530936	953	530936	953	1	0	43
18	525220	901	525219	901	1	0	42
19	519814	855	519813	855	1	0	41
20	514684	813	514684	813	1	0	40
21	509805	776	509804	776	1	1	39
22	505153	741	505151	741	2	0	38
23	500708	708	500706	708	2	0	37
24	496452	680	496450	680	2	0	36
25	492370	654	492368	654	2	1	35
26	488448	629	488445	629	3	0	34
27	484674	606	484671	606	3	1	33
28	481038	585	481034	585	4	0	32
29	477529	565	477525	565	4	0	31
30	474139		474135		4		30
					Antilog. 179. Log. 89.		M.n Gr.

Gr. 0. Log. 90. Antilog.

Min.	Logarithmi	Pro 10//		Mesologar +	Pro 10//		Logarith	Diff	
30	474139	547		474135	547		4	0	30
31	470860	529		470856	529		4	1	29
32	467685	513		467680	513		5	0	28
33	4608	498		4603	498		5	0	27
34	1623	483		1618	483		5	0	26
35	458724	469		458719	469		5	1	25
36	5907	457		5901	457		6	0	24
37	3167	445		3161	445		6	0	23
38	0500	433		0494	433		6	0	22
39	447903	422		447897	422		6	0	21
40	5371	412		5365	412		6	1	20
41	2902	402		2895	402		7	1	19
42	0493	392		0485	392		8	0	18
43	438140	383		438132	383		8	0	17
44	5841	375		5833	375		8	1	16
45	3594	367		3585	367		9	0	15
46	1396	359		1387	359		9	0	14
47	429245	351		429236	351		9	1	13
48	7140	344		7130	344		10	0	12
49	5078	337		5068	337		10	0	11
50	3058	330		3048	330		10	1	10
51	1078	324		1067	324		11	0	9
52	419136	317		419125	317		11	1	8
53	7232	312		7220	312		12	1	7
54	5363	306		5350	306		13	0	6
55	3528	300		3515	300		13	0	5
56	1726	295		1713	295		13	0	4
57	0066	290		0053	290		13	1	3
58	408217	285		408203	285		14	1	2
59	6508	280		6493	280		15	0	1
60	4827			4812			15		0
									Min.

Antilog. 179. Log. 89. Gr

Gr.I. Log. 91. Antilog.

Min.	Logarithmi	Pro 10 //	Mesologar. +	Pro 10 //	Logarith.	Diff.	
0	404827	275	404812	275	15	I	60
1	3175	271	3159	271	16	0	59
2	1549	-267-	1533	-267-	16	-I-	58
3	399949	263	399932	263	17	0	57
4	8374	259	8357	259	17	I	56
5	6824	-255-	6806	-255-	18	-0-	55
6	5298	251	5279	251	18	I	54
7	3794	247	3775	247	19	I	53
8	2313	-243-	2293	-243-	20	-0-	52
9	0853	240	0833	240	20	I	51
10	389414	236	389394	236	21	0	50
11	7996	-233-	7975	-233-	21	-I-	49
12	6598	230	6576	230	22	I	48
13	5219	227	5196	227	23	0	47
14	3858	-224-	3835	-224-	23	-I-	46
15	2516	221	2492	221	24	0	45
16	1192	218	1167	218	24	I	44
17	379885	-215-	379860	-215-	25	-I-	43
18	8595	212	8569	212	26	0	42
19	7321	210	7295	210	26	I	41
20	6063	-207-	6036	-207-	27	-I-	40
21	4821	204	4794	204	28	0	39
22	3595	202	3566	202	28	I	38
23	2383	-200-	2354	-200-	29	-I-	37
24	1185	197	1155	197	30	I	36
25	0002	195	369971	159	31	0	35
26	368833	-193-	8801	-193-	31	-I-	34
27	7677	191	7645	191	32	I	33
28	6534	188	6501	188	33	I	32
29	5404	-186-	5371	-186-	34	-0-	31
30	4287		4253		34		30
							Min

Antilog. 178 Log 88. Gr.

Gr. I. Log. 91. Antilog.

Min.	Logarithmi	Proto 10//	Mesologar +	Proto //	Logarith	Diff.	
30	364287	184	364253	184	34	1	30
31	3183	182	3148	182	35	1	29
32	2090	180	2054	180	36	1	28
33	1009	178	0973	178	37	0	27
34	359940	176	359903	176	37	1	26
35	8882	175	8844	175	38	1	25
36	7835	173	7796	173	39	1	24
37	6799	171	6759	171	40	1	23
38	5774	169	5733	169	41	0	22
39	4759	168	4717	168	41	1	21
40	3754	166	3712	166	42	1	20
41	2759	164	2716	164	43	1	19
42	1774	162	1730	162	44	1	18
43	0800	161	0754	161	45	1	17
44	349833	159	349787	159	46	1	16
45	8877	158	8830	158	47	1	15
46	7929	156	7881	156	48	0	14
47	6990	155	6942	155	48	1	13
48	6060	153	6011	153	49	1	12
49	5139	152	5089	152	50	1	11
50	4226	151	4175	151	51	1	10
51	2321	149	3269	149	52	1	9
52	2425	148	2372	148	53	1	8
53	1536	147	1482	147	54	1	7
54	0655	146	0710	146	55	1	6
55	339782	144	339726	144	56	1	5
56	8917	143	8860	143	57	1	4
57	8059	142	8001	142	58	1	3
58	7208	141	7149	141	59	1	2
59	6365	140	6350	140	60	1	1
60	5528		5467		61		0
							Min.

Antilog. 178. Log. 88. Gr.

Gr.2. Log. 92 Antilog.

Min	Logarithmi	Pro 10//	Mesologar. +	Pro 10//	Logarith	Diff	
0	335528	139	335467	139	61	1	60
1	4699	137	4637	137	62	1	59
2	3876	136	3813	136	63	1	58
3	3060	135	2996	135	64	1	57
4	2251	134	2185	134	65	1	56
5	1448	133	1382	133	66	1	55
6	0651	132	0584	132	67	1	54
7	329861	131	329793	131	68	1	53
8	9077	130	9008	130	69	1	52
9	8299	129	8229	129	70	2	51
10	7527	128	7456	128	72	1	50
11	6761	127	6689	127	73	1	49
12	6001	126	5929	126	74	1	48
13	5247	125	5172	125	75	1	47
14	4498	124	4422	124	76	1	46
15	3755	123	3678	123	77	1	45
16	3018	122	2939	122	78	1	44
17	2285	121	2206	121	79	2	43
18	1559	120	1478	120	81	1	42
19	0837	120	0755	120	82	1	41
20	0120	119	0037	119	83	1	40
21	319409	118	319325	118	84	1	39
22	8703	117	8617	117	85	2	38
23	8001	116	7915	116	87	1	37
24	7305	116	7217	116	88	1	36
25	6613	115	6524	115	89	1	35
26	5926	114	5836	114	90	1	34
27	5244	113	5153	113	91	2	33
28	4567	112	4474	112	93	1	32
29	3894	112	3800	112	94	1	31
30	3225		3130		95		30
							Min

Antilog.177. Log 87.Gr

Gr.2. Log. 92 Antilog.

Min.	Logarithmi	Pro 10 //	Mesologar. +	Pro 10 //	Logarith.	Diff.	
30	313225	111	313130	111	95	2	30
31	2561	110	2465	110	97	1	29
32	1902	109	1804	109	98	1	28
33	1246	109	1147	109	99	1	27
34	0595	108	0495	108	100	2	26
35	309948	107	309847	107	102	1	25
36	9306	106	9203	107	103	1	24
37	8667	106	8563	106	104	2	23
38	8033	105	7927	105	106	1	22
39	7402	104	7295	105	107	1	21
40	6776	104	6667	104	108	2	20
41	6153	103	6043	103	110	1	19
42	5534	102	5423	103	111	1	18
43	4919	102	4807	102	112	2	17
44	4308	101	4194	101	114	1	16
45	3701	100	3586	101	115	2	15
46	3097	100	2981	100	117	1	14
47	2497	99	2379	100	118	1	13
48	1900	99	1781	99	119	2	12
49	1307	98	1187	98	121	1	11
50	0718	97	0596	98	122	2	10
51	0132	97	0008	97	124	1	9
52	299549	96	299424	96	125	2	8
53	8970	95	8843	96	127	1	7
54	8394	95	8266	95	128	2	6
55	7822	94	7692	95	130	1	5
56	7252	94	7121	94	131	2	4
57	6686	93	6554	94	133	1	3
58	6123	93	5989	93	134	2	2
59	5564	93	5428	93	136	1	1
60	5007		4870		137		0
							Min.

Antilog. 177 Log. 87. Gr.

Gr. 3. Log. 93. Antilog.

Min.	Logarithmi	Pro 10//	Mesologar. +	Pro 10//		Logarith	Diff	
0	295007	92	294870	93		137	2	60
1	4454	92	4315	92		139	1	59
2	3903	-91-	3768	-92-		140	2	58
3	3356	91	3214	91		142	1	57
4	2811	90	2668	91		143	2	56
5	2270	-90-	2125	-90-		145	1	55
6	1731	89	1585	90		146	2	54
7	1195	89	1047	89		148	2	53
8	0663	-88-	0513	-89-		150	1	52
9	0133	88	289982	88		151	2	51
10	289606	87	9453	88		153	1	50
11	9081	-87-	8927	-87-		154	2	49
12	8559	87	8403	87		156	2	48
13	8040	86	7883	86		158	1	47
14	7524	-86-	7365	-86-		159	2	46
15	7011	85	6850	85		161	2	45
16	6500	85	6337	85		163	1	44
17	5991	-84-	5827	-84-		164	2	43
18	5485	84	5320	84		166	2	42
19	4982	83	4815	84		168	1	41
20	4482	-83-	4812	-83-		169	2	40
21	3984	83	3813	83		171	2	39
22	3488	82	3315	83		173	1	38
23	2995	-82-	2820	-82-		174	2	37
24	2504	82	2328	82		176	2	36
25	2015	81	1837	81		178	2	35
26	1529	-81-	1350	-81-		180	1	34
27	1045	80	0864	80		181	2	33
28	0564	80	0381	80		183	2	32
29	0085	-80-	279900	-80-		185	2	31
30	279608		9422			187		30

Antilog. 176. Log 86 Gr

Gr. 3. Log. 93. Antilog.

Min.	Logarithmi	Pro 10″	Mesologar +	Pro 10″	Logarith	Diff.	[Min]
30	279608		279422		187		30
31	9134	79	8946	79	188	1	29
32	8662	79	8472	79	190	2	28
33	8192	78	8000	79	192	2	27
34	7724	78	7530	78	194	2	26
35	7258	78	7063	78	196	2	25
36	6795	77	6598	78	198	2	24
37	6334	77	6134	77	199	1	23
38	5875	76	5673	77	201	2	22
39	5418	76	5214	76	203	2	21
40	4963	76	4758	76	205	2	20
41	4510	75	4303	76	207	2	19
42	4059	75	3850	75	209	2	18
43	3610	75	3399	75	211	2	17
44	3163	74	2951	75	212	1	16
45	2718	74	2504	74	214	2	15
46	2276	74	2059	74	216	2	14
47	1835	73	1617	74	218	2	13
48	1396	73	1176	73	220	2	12
49	0959	73	0737	73	222	2	11
50	0524	73	0300	73	224	2	10
51	0091	72	269865	73	226	2	9
52	269660	72	9431	72	228	2	8
53	9230	72	9000	72	230	2	7
54	8802	71	8570	72	232	2	6
55	8376	71	8143	71	234	2	5
56	7952	71	7717	71	236	2	4
57	7530	71	7292	71	238	2	3
58	7110	70	6870	70	240	2	2
59	6691	70	6449	70	242	2	1
60	6274	70	6031	70	244	2	0

Min

Antilog.176. Log.86.Gr.

Gr.4. Log. 94. Antilog.

Min.	Logarithmi	Pro 10//	Melologar. +	Pro 10//	Logarith	Diff	
0	266274	69	266031	70	244	2	60
1	5859	69	5613	69	246	2	59
2	5446	69	5198	69	248	2	58
3	5034	69	4784	69	250	2	57
4	4624	68	4372	68	252	2	56
5	4216	68	3962	68	254	2	55
6	3809	68	3553	68	256	2	54
7	3404	68	3146	68	258	2	53
8	3001	67	2740	67	260	3	52
9	2599	67	2337	67	263	2	51
10	2199	67	1934	67	265	2	50
11	1801	67	1534	67	267	2	49
12	1404	66	1135	66	269	2	48
13	1008	66	0737	66	271	2	47
14	0615	66	0341	66	273	2	46
15	0222	65	259947	65	275	2	45
16	259832	65	9554	65	277	3	44
17	9443	65	9163	65	280	2	43
18	9055	65	8773	65	282	2	42
19	8669	64	8385	64	284	2	41
20	8284	64	7998	64	286	2	40
21	7901	64	7513	64	288	3	39
22	7519	64	7229	64	291	2	38
23	7139	63	6847	64	293	2	37
24	6760	63	6465	63	295	2	36
25	6383	63	6086	63	297	3	35
26	6007	63	5708	63	300	2	34
27	5633	63	5331	63	302	2	33
28	5260	62	4955	62	304	2	32
29	4888	62	4581	62	306	3	31
30	4518		4209		309		30
							Min.

Antilog.175.Log.85. Gr.

Gr. 4. Log. 94. Antilog.

Min.	Logarithmi	Pro 10//	Mesologar. +	Pro 10//	Logaritn.	Diff	
30	254518	62	254209	62	309	2	30
31	4149	62	3838	62	311	2	29
32	3781	-61-	3468	-61-	313	-3-	28
33	3415	61	3099	61	316	2	27
34	3050	61	2732	61	318	2	26
35	2687	-61-	2366	-61-	320	-3-	25
36	2325	60	2002	61	323	2	24
37	1964	60	1639	60	325	2	23
38	1604	-60-	1277	-60-	327	-3-	22
39	1246	60	0916	60	330	2	21
40	0889	60	0557	60	332	2	20
41	0533	-59-	0199	-59-	334	-3-	19
42	0179	59	249842	59	337	2	18
43	249825	59	9486	59	339	3	17
44	9474	-59-	9132	-59-	342	-2-	16
45	9123	59	8779	59	344	2	15
46	8773	58	8427	58	346	3	14
47	8425	-58-	8076	-58-	349	-2-	13
48	8078	58	7727	58	351	3	12
49	7732	58	7378	58	354	2	11
50	7388	-58-	7031	-58-	356	-3-	10
51	7044	57	6685	57	359	2	9
52	6702	57	6341	57	361	2	8
53	6361	-57-	5997	-57-	364	-2-	7
54	6021	57	5655	57	366	3	6
55	5682	57	5314	57	369	2	5
56	5345	-56-	4974	-56-	371	-3-	4
57	5008	56	4635	56	374	2	3
58	4673	56	4297	56	376	3	2
59	4339	-56-	3960	-56-	379	-2-	1
60	4006		3625		381		0
							Min.

Antilog. 175. Log. 85. Gr.

Gr.5. Log. 95. Antilog.

Min.	Logarithmi	Pro 10″	Mesologar. +	Pro 10″	Logarith	Diff	
0	244006	56	243625	56	381	3	60
1	3674	55	3290	55	384	2	59
2	3343	55	2957	55	386	3	58
3	3013	55	2624	55	389	2	57
4	2685	55	2293	55	391	3	56
5	2357	55	1963	55	394	3	55
6	2031	54	1634	55	397	2	54
7	1705	54	1306	54	399	3	53
8	1381	54	0979	54	402	2	52
9	1058	54	0653	54	404	3	51
10	0735	54	0328	54	407	3	50
11	0414	53	0004	54	410	2	49
12	0094	53	239682	53	412	3	48
13	239775	53	9360	53	415	3	47
14	9457	53	9039	53	418	2	46
15	9140	53	8719	53	420	3	45
16	8824	53	8401	53	423	3	44
17	8509	52	8083	53	426	2	43
18	8195	52	7766	52	428	3	42
19	7882	52	7450	52	431	3	41
20	7569	52	7136	52	434	3	40
21	7258	52	6822	52	437	2	39
22	6948	52	6509	52	439	3	38
23	6639	51	6197	52	442	3	37
24	6331	51	5886	51	445	3	36
25	6024	51	5576	51	448	2	35
26	5717	51	5267	51	450	3	34
27	5412	51	4959	51	453	3	33
28	5107	51	4652	51	456	3	32
29	4804	50	4345	51	459	2	31
30	4501		4040		461		30

Antilog. 174. Log. 84. Min. Gr.

Gr. 5. Log. 95. Antilog.

Min.	Logarithmi	Pro 10 //	Mesologar. +	Pro 10 //	Logarith.	Diff.	
30	234501		234040		461		30
31	4200	50	3736	51	464	3	29
32	3899	50	3432	51	467	3	28
33	3599	50	3129	50	470	3	27
34	3300	50	2828	50	473	3	26
35	3002	50	2527	50	476	3	25
36	2705	50	2227	50	478	2	24
37	2409	49	1928	50	481	3	23
38	2114	49	1630	50	484	3	22
39	1819	49	1332	50	487	3	21
40	1526	49	1036	49	490	3	20
41	1233	49	0740	49	493	3	19
42	0941	49	0445	49	496	3	18
43	0650	48	0151	49	499	3	17
44	0360	48	229858	49	501	2	16
45	0071	48	9566	49	504	3	15
46	229782	48	9275	48	507	3	14
47	9494	48	8984	48	510	3	13
48	9208	48	8694	48	513	3	12
49	8922	47	8406	48	516	3	11
50	8637	47	8117	48	519	3	10
51	8352	47	7830	48	522	3	9
52	8069	47	7544	48	525	3	8
53	7786	47	7258	48	528	3	7
54	7504	47	6973	47	531	3	6
55	7223	47	6689	47	534	3	5
56	6943	47	6406	47	537	3	4
57	6663	47	6123	47	540	3	3
58	6385	46	5841	47	543	3	2
59	6107	46	5560	47	546	3	1
60	5830	46	5280	47	549	3	0
							Min

Antilog. 174 Log. 84. Gr.

Gr.6. Log. 96. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
0	225830	277	225280	279	549	3	60
1	553	275	001	279	552	3	59
2	278	275	224722	278	555	4	58
3	003	274	444	277	559	3	57
4	224729	274	167	277	562	3	56
5	455	272	223890	275	565	3	55
6	183	272	615	275	568	3	54
7	223911	271	340	274	571	3	53
8	640	270	066	274	574	3	52
9	370	270	222792	274	577	3	51
10	100	269	520	272	580	4	50
11	222831	268	248	272	583	4	49
12	563	268	221976	270	587	3	48
13	295	266	706	270	590	3	47
14	029	266	436	269	593	3	46
15	221763	265	167	269	596	3	45
16	498	265	220898	267	599	4	44
17	233	264	631	267	603	3	43
18	220969	263	364	267	606	3	42
19	706	262	097	265	609	3	41
20	444	262	219832	265	612	4	40
21	182	261	567	265	616	3	39
22	219921	260	302	263	619	3	38
23	661	260	039	263	622	3	37
24	401	259	218776	263	625	3	36
25	142	258	513	261	628	4	35
26	218884	258	252	261	632	3	34
27	626	257	217991	260	635	3	33
28	369	256	731	260	638	4	32
29	113	256	471	259	642	3	31
30	217857		212		645		30

Antilog. 173. Log 83. Gr.

Gr.6. Log. 96. Antilog							
Min.	Logarithmi	Pro 10 //	Mesologar. +	Pro 10 //	Logarith.	Diff.	
30	217857	255	217212	258	645	3	30
31	602	254	216954	258	648	4	29
32	348	-254-	696	-257-	652	-3-	28
33	094	253	439	256	655	3	27
34	216841	252	183	256	658	4	26
35	589	-252-	215927	-255-	662	-3-	25
36	337	251	672	254	665	3	24
37	086	251	418	254	668	4	23
38	215835	-250-	164	-253-	672	-3-	22
39	585	249	214911	253	675	3	21
40	336	248	658	252	678	4	20
41	088	-248-	406	-251-	682	-3-	19
42	214840	247	155	251	685	4	18
43	593	247	213904	250	689	3	17
44	346	-246-	654	-250-	692	-4-	16
45	100	246	404	249	696	3	15
46	213854	245	155	248	699	3	14
47	609	-244-	212907	-248-	702	-4-	13
48	365	244	659	247	706	3	12
49	121	243	412	246	709	4	11
50	212878	-242-	166	-246-	713	-3-	10
51	636	242	211920	246	716	4	9
52	394	241	674	245	720	3	8
53	153	-241-	429	-244-	723	-4-	7
54	211912	240	185	243	727	3	6
55	672	239	210942	243	730	4	5
56	433	-239-	699	-243-	734	-4-	4
57	194	238	456	242	738	3	3
58	210956	238	214	241	741	4	2
59	718	-238-	209973	-241-	745	-3-	1
60	480		732		748		0
							Min

Antilog.173.Log.83.Gr.

Gr.7. Log. 97.Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
0	210481	237	209732	240	748	4	60
1	244	236	492	240	752	3	59
2	008	-236	252	-239-	755	4	58
3	209772	235	013	238	759	4	57
4	537	234	208775	238	763	3	56
5	303	-234	537	-238	766	4	55
6	069	233	299	236	770	3	54
7	208836	233	063	237	773	4	53
8	603	-232	207826	-236-	777	4	52
9	371	232	590	235	781	3	51
10	139	231	355	235	784	4	50
11	207908	-230	120	-234-	788	4	49
12	678	230	206886	233	792	3	48
13	448	230	653	234	795	4	47
14	218	-229	419	-233-	799	4	46
15	206989	228	186	231	803	3	45
16	761	228	205955	232	806	4	44
17	533	-227	723	-231-	810	4	43
18	306	227	492	231	814	4	42
19	079	226	261	230	818	3	41
20	205853	-226	031	-229-	821	4	40
21	627	225	204802	229	825	4	39
22	402	225	573	229	829	4	38
23	177	-224	344	-228	833	3	37
24	204953	224	116	227	836	4	36
25	729	223	203889	227	840	4	35
26	506	-223	662	-227-	844	4	34
27	283	222	435	226	848	4	33
28	061	222	209	225	852	4	32
29	203839	-221	202984	-225-	856	3	31
30	618		759		859		30

7. Gr. Log. 97. Antilog.

Min.	Logarithmi	differ.	Mesologar. +	differ.	garitm.	Diff.	
30	203618		202759		859		30
31	397	221	534	225	863	6	29
32	203177	220	310	224	867	6	28
33	202957	220	087	223	871	6	27
34	738	219	201864	223	874	6	26
35	519	219	641	223	878	6	25
36	301	218	419	222	882	6	24
37	202083	218	197	222	886	6	23
38	201866	217	200976	221	890	6	22
39	649	217	755	221	894	6	21
40	433	216	535	220	898	6	20
41	217	216	315	220	902	6	19
42	201002	215	096	219	906	6	18
43	200787	215	199877	219	910	6	17
44	572	215	659	218	914	6	16
45	358	214	441	218	918	6	15
46	145	213	223	218	922	6	14
47	199932	213	006	217	926	6	13
48	719	213	198790	216	930	6	12
49	507	212	574	216	934	6	11
50	196	211	358	216	938	6	10
51	085	211	143	215	942	6	9
52	198874	211	197928	215	946	6	8
53	663	211	714	214	950	6	7
54	453	210	500	214	954	6	6
55	244	209	286	214	958	6	5
56	035	209	073	213	962	6	4
57	826	209	196861	212	966	6	3
58	618	208	649	212	970	6	2
59	411	207	437	212	974	6	1
60	204	207	226	211	978	6	0

Min.

Antilog. 172. Log. 82. Gr.

8.Gr.Log 98.Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
0	197204	20	196226	211	978	4	60
1	196997	206	015	211	982	4	59
2	791	206	195804	210	986	4	58
3	585	206	594	209	990	4	57
4	379	205	385	209	994	4	56
5	174	204	176	209	998	5	55
6	195970	205	194967	208	1003	4	54
7	765	203	759	208	007	4	53
8	562	204	551	208	1011	4	52
9	358	203	343	207	015	4	51
10	155	202	136	207	019	4	50
11	194953	202	193929	206	1023	5	49
12	751	202	723	206	028	4	48
13	549	201	517	205	032	4	47
14	348	201	312	205	036	4	46
15	147	200	107	205	040	4	45
16	193947	200	192902	204	044	5	44
17	747	200	698	204	049	4	43
18	547	199	494	203	1053	4	42
19	348	199	291	203	057	4	41
20	149	198	088	203	061	5	40
21	192951	198	191285	202	066	4	39
22	753	198	683	202	070	4	38
23	555	197	481	202	074	4	37
24	358	197	279	201	078	5	36
25	161	196	078	200	1083	4	35
26	191965	196	190878	201	087	4	34
27	769	196	677	199	091	5	33
28	573	195	478	199	096	4	32
29	378	195	279	200	1100	4	31
30	183		079		104		30
							Min

Antilog. 171. Log. 81 Gr.

8. Gr. Log. 98. Antilog.

Min.	Logarithmi	differ.	Mesologar. +	differ.	garith.	diff.	
30	191183		190079		1104		30
31	190989	194	189880	199	109	5	29
32	795	194	681	199	113	4	28
33	601	194	483	198	1118	5	27
34	408	193	285	198	122	4	26
35	215	193	088	197	126	4	25
36	022	193	188891	197	1131	5	24
37	189830	192	695	196	135	4	23
38	683	192	499	196	139	4	22
39	447	191	303	196	1144	5	21
40	256	191	107	196	148	4	20
41	065	191	187912	195	153	5	19
42	188875	190	717	195	1157	4	18
43	685	190	523	194	162	5	17
44	495	190	329	194	166	4	16
45	306	189	135	194	1171	5	15
46	117	189	186942	193	175	4	14
47	187929	188	749	193	180	5	13
48	741	188	556	193	1184	4	12
49	553	188	364	192	189	5	11
50	366	187	172	192	193	4	10
51	179	187	185981	191	198	5	9
52	186992	187	790	191	1202	4	8
53	806	186	599	191	207	5	7
54	620	186	408	191	1211	4	6
55	434	186	218	190	216	5	5
56	249	185	028	190	220	4	4
57	064	185	184839	189	1225	5	3
58	185880	184	650	189	230	5	2
59	696	184	461	189	234	4	1
60	512	184	273	188	1239	5	0

Min.

Antilog.171. Log.81.Gr.

9. Gr. Log 99. Antilog.

Min.	Logarithm.	Differ.	Mesologar. +	Differ.	Logarith	Diff	
0	185512	184	184273	188	1239	4	60
1	328	183	085	188	243	5	59
2	145	183	183897	187	248	5	58
3	184962	182	710	187	253	4	57
4	780	182	523	187	257	5	56
5	598	182	336	187	1262	5	55
6	416	182	149	186	267	4	54
7	234	181	182963	186	271	5	53
8	053	181	777	185	276	5	52
9	183872	180	592	185	1281	4	51
10	692	180	407	185	285	5	50
11	512	180	222	184	290	5	49
12	332	179	038	184	295	4	48
13	153	179	181854	184	299	5	47
14	182974	179	670	184	1304	5	46
15	795	178	486	183	309	5	45
16	617	178	303	183	314	4	44
17	439	178	120	183	318	5	43
18	261	178	180938	182	1323	5	42
19	083	177	755	182	328	5	41
20	181906	177	573	182	333	4	40
21	729	176	391	181	337	5	39
22	553	176	210	181	1342	5	38
23	377	176	029	181	347	5	37
24	201	176	179849	180	352	5	36
25	025	175	668	180	357	5	35
26	180850	175	488	180	1362	4	34
27	675	175	308	179	366	5	33
28	500	174	129	179	371	5	32
29	326	174	178950	179	376	5	31
30	152		771		1381		30
							Min

Antilog. 170. Log. 80 Gr.

9.Gr. Logar.99 Antilog

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
30	180152	174	178771	179	1381	5	30
31	179978	173	592	178	386	5	29
32	805	173	414	178	391	5	28
33	632	173	236	178	396	4	27
34	459	172	058	177	1400	5	26
35	287	172	177881	177	405	5	25
36	115	172	704	177	410	5	24
37	178943	172	527	176	415	5	23
38	771	171	351	176	1420	5	22
39	600	171	175	176	425	5	21
40	429	171	176999	176	430	5	20
41	258	170	823	175	435	5	19
42	088	170	648	175	1440	5	18
43	177918	170	473	175	445	5	17
44	748	169	298	174	450	5	16
45	579	169	124	174	455	5	15
46	410	169	175950	174	1460	5	14
47	241	169	776	174	465	5	13
48	072	168	602	173	470	5	12
49	176904	168	429	173	475	5	11
50	736	168	256	173	1480	5	10
51	568	167	083	172	485	5	9
52	401	167	174911	172	490	5	8
53	234	167	739	172	495	5	7
54	067	167	567	172	1500	5	6
55	175900	166	395	171	505	5	5
56	734	166	224	171	510	6	4
57	568	166	053	171	516	5	3
58	402	165	173882	171	1521	5	2
59	237	165	711	170	526	5	1
60	072		541		531		0

Min

Antilog.170. Log.80 Gr.

10.Gr. Log. 100 Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarit	Diff	
0	175072	165	173541	170	1531	5	60
1	174907	164	371	170	536	5	59
2	743	164	201	169	1541	5	58
3	579	164	032	169	546	5	57
4	415	164	172863	169	551	6	56
5	251	164	694	169	557	5	55
6	087	163	525	168	1562	5	54
7	173924	163	357	168	567	5	53
8	761	162	189	168	572	5	52
9	599	162	021	167	577	6	51
10	437	162	171854	167	1583	5	50
11	275	162	687	167	588	5	49
12	113	162	520	167	593	5	48
13	172951	161	353	167	598	6	47
14	790	161	186	166	1604	5	46
15	629	161	020	166	609	5	45
16	468	161	170854	166	614	5	44
17	307	160	688	165	619	6	43
18	147	160	523	165	1625	5	42
19	171987	160	3 8	165	630	5	41
20	827	159	193	165	635	6	40
21	668	159	028	165	1641	5	39
22	509	159	169863	164	646	5	38
23	350	159	699	164	651	5	37
24	191	158	535	164	656	6	36
25	033	158	371	163	1662	5	35
26	170875	158	208	163	667	6	34
27	717	157	045	163	673	5	33
28	560	157	168882	163	678	5	32
29	403	157	719	162	1683	6	31
30	246		557		689		30

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Antilog. 169 Log 79 Gr

10. Gr. Logar. 100. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
30	170246		168557		1689		30
31	089	157	395	162	694	5	29
32	169932	157	233	162	699	5	28
33	776	156	071	162	1705	6	27
34	620	156	167909	162	710	5	26
35	464	156	748	161	716	6	25
36	308	156	587	161	1721	5	24
37	153	155	426	161	727	6	23
38	168998	155	266	160	732	5	22
39	843	155	106	160	738	6	21
40	688	155	166946	160	1743	5	20
41	534	154	786	160	749	6	19
42	380	154	626	160	754	5	18
43	226	154	467	159	759	5	17
44	072	154	308	159	1765	6	16
45	167919	153	149	159	771	6	15
46	766	153	165990	159	776	5	14
47	613	153	832	158	1782	6	13
48	461	152	674	158	787	5	12
49	309	152	516	158	793	6	11
50	157	152	358	158	798	5	10
51	005	152	200	158	1804	6	9
52	166853	152	043	157	809	5	8
53	701	151	164886	157	815	6	7
54	550	151	729	157	1821	6	6
55	399	151	573	156	826	5	5
56	248	151	417	156	832	6	4
57	098	150	261	156	837	5	3
58	165948	150	105	156	1843	6	2
59	798	150	163949	156	849	6	1
60	648	150	794	155	854	5	0
							Min

Antilog. 169. Log. 79 Gr.

11.Gr. Log. 101. Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
0	165648	150	163794	155	1854	6	60
1	498	149	639	155	1860	6	59
2	349	149	484	155	866	5	58
3	200	149	329	155	871	6	57
4	051	149	174	154	877	6	56
5	164902	148	020	154	1883	5	55
6	754	148	162866	154	888	6	54
7	606	148	712	154	894	6	53
8	458	148	558	153	1900	6	52
9	310	147	405	153	906	5	51
10	163	147	252	153	911	6	50
11	016	147	099	153	917	6	49
12	163869	147	161946	153	1923	6	48
13	722	147	793	152	929	5	47
14	575	146	641	152	934	6	46
15	429	146	489	152	940	6	45
16	283	146	337	152	946	6	44
17	137	146	185	151	1952	6	43
18	162991	145	034	151	958	5	42
19	846	145	160883	151	963	6	41
20	701	145	732	151	969	6	40
21	556	145	581	151	975	6	39
22	411	145	430	151	981	6	38
23	266	144	279	150	987	6	37
24	122	144	129	150	993	5	36
25	161978	144	159979	150	998	6	35
26	834	144	829	149	2004	6	34
27	690	144	680	150	010	6	33
28	546	143	530	149	016	6	32
29	403	143	381	149	022	6	31
30	260		232		028		30

Min.

Antilog. 168 Log 78 Gr

Gr. 11. Log. 101. Antilog.

Min.	Logarithm	Differ.	Co-logar. +	Diff.	Logarith	Diff.	
30	161260	143	159232	149	2028	6	30
31	117	143	083	148	034	6	29
32	160974	142	158935	148	040	6	28
33	832	142	787	148	046	6	27
34	690	142	639	148	052	6	26
35	548	142	491	148	058	6	25
36	406	142	343	148	064	6	24
37	264	141	195	147	070	6	23
38	123	141	048	147	076	6	22
39	159982	141	157901	147	082	6	21
40	841	141	754	147	088	6	20
41	700	141	607	147	094	6	19
42	560	140	460	146	2100	6	18
43	419	140	314	146	106	6	17
44	279	140	168	146	112	6	16
45	139	140	022	146	118	6	15
46	158999	139	156876	146	124	6	14
47	860	139	730	146	130	6	13
48	721	139	584	145	136	6	12
49	582	139	439	145	142	6	11
50	4[illegible]3	139	294	145	148	6	10
51	304	139	149	145	154	6	9
52	165	138	004	144	160	6	8
53	027	138	155860	144	166	7	7
54	157889	138	716	144	173	6	6
55	751	138	572	144	179	6	5
56	613	138	428	144	185	6	4
57	475	137	284	143	191	6	3
58	338	137	141	143	197	6	2
59	201	137	154998	143	2203	6	1
60	064		855		209		0

Min

Antilog 168. Log 78 Gr.

Gr.12.Log. 102.Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarithm.		
0	157064	137	154855	143	2209	7	60
1	156927	137	712	143	216	6	59
2	790	136	569	143	222	6	58
3	654	136	426	142	228	6	57
4	518	136	284	142	234	6	56
5	382	136	142	142	240	7	55
6	246	135	000	142	247	6	54
7	111	135	153858	142	253	6	53
8	155976	136	716	141	259	6	52
9	848	136	575	141	265	7	51
10	704	134	434	141	272	6	50
11	570	134	293	141	278	6	49
12	436	135	152	141	284	6	48
13	301	134	011	141	290	7	47
14	167	134	152870	140	297	6	46
15	033	134	730	140	2303	7	45
16	154899	134	590	140	310	6	44
17	765	133	450	140	316	6	43
18	632	133	310	140	322	7	42
19	499	133	170	140	329	6	41
20	366	133	030	139	335	6	40
21	233	133	151891	139	341	7	39
22	100	133	752	139	348	6	38
23	153967	132	613	139	354	6	37
24	835	132	474	139	360	7	36
25	703	132	335	138	367	6	35
26	571	132	197	138	373	7	34
27	439	132	059	138	380	6	33
28	307	132	150921	138	386	6	32
29	175	131	783	138	392	7	31
30	044		645		399		30

M.B

Antilog. 167 Log. 77 Gr.

Gr.12. Log. 102. Antilog.

Min.	Logarithmi	Differ.	Mesologar. ✠	Differ.	Logarith	Diff.	
30	153044	131	150645	137	2399	6	30
31	152913	131	508	138	2405	7	29
32	782	131	370	137	412	6	28
33	651	130	233	137	418	7	27
34	521	130	096	137	425	6	26
35	391	131	149959	137	431	7	25
36	260	130	822	136	438	6	24
37	130	130	686	136	444	7	23
38	000	130	550	136	451	6	22
39	151870	129	414	137	457	7	21
40	741	129	277	136	464	6	20
41	612	129	141	135	470	7	19
42	483	129	006	136	477	7	18
43	354	129	148870	135	484	6	17
44	225	129	735	135	490	7	16
45	096	128	600	135	497	6	15
46	150968	129	465	135	2503	7	14
47	839	128	330	135	510	6	13
48	711	128	195	135	516	7	12
49	583	127	060	134	523	7	11
50	456	128	147926	134	530	6	10
51	328	127	792	134	536	7	9
52	201	128	658	134	543	7	8
53	073	127	524	134	550	6	7
54	149946	127	390	134	556	7	6
55	819	126	256	133	563	7	5
56	693	127	123	133	570	6	4
57	566	126	146990	133	576	7	3
58	440	127	857	133	583	7	2
59	313	126	724	133	590	6	1
60	187		591		596		0

Min.

Antilog 167. Log 77 Gr.

Gr.13.Log. 103.Antilog.

Min.	Logarithmi	iffer.	Mesologar. +	Differ.	Logarith.	Diff	
0	149187	126	146591	133	2596	7	60
1	061	125	458	132	2603	7	59
2	148936	126	326	133	610	7	58
3	810	125	193	132	617	6	57
4	685	126	061	132	623	7	56
5	559	125	145929	132	630	7	55
6	434	125	797	131	637	7	54
7	309	125	666	132	644	6	53
8	184	124	534	131	650	7	52
9	060	124	403	131	657	7	51
10	147936	125	272	131	664	7	50
11	811	124	141	131	671	7	49
12	687	124	010	131	678	6	48
13	563	124	144879	131	684	7	47
14	439	123	748	130	691	7	46
15	316	124	618	131	698	7	45
16	192	123	487	130	2705	7	44
17	069	123	357	130	712	7	43
18	146946	123	227	130	719	7	42
19	823	123	097	129	726	6	41
20	700	123	143968	130	732	7	40
21	577	122	838	129	739	7	39
22	455	122	709	130	746	7	38
23	333	123	579	129	753	7	37
24	210	122	450	129	760	7	36
25	088	121	321	129	767	7	35
26	145967	122	192	128	774	7	34
27	845	122	064	129	781	7	33
28	723	121	142935	128	788	7	32
29	602	121	807	128	795	7	31
30	481		679		2802		30
							Min

Antilog. 166.Log. 76 Gr.

Gr.13. Logar. 103. Antilog.

Min.	Logarithmi	differ.	Mesologar. +	differ.	Logarith.	Diff.	
30	145481		142679		2802		30
31	360	121	551	128	809	7	29
32	239	121	423	128	816	7	28
33	118	121	295	128	823	7	27
34	144997	121	167	128	830	7	26
35	877	120	040	127	837	7	25
36	756	121	141913	127	844	7	24
37	636	120	785	128	851	7	23
38	516	120	658	127	858	7	22
39	396	120	531	127	865	7	21
40	277	119	405	126	872	7	20
41	157	120	278	127	879	7	19
42	038	119	151	127	886	7	18
43	143919	119	025	126	893	7	17
44	799	120	140899	126	2901	8	16
45	680	119	773	126	908	7	15
46	562	118	647	126	915	7	14
47	443	119	521	126	922	7	13
48	325	118	395	126	929	7	12
49	206	119	270	125	936	7	11
50	088	118	145	125	943	7	10
51	142970	118	019	126	951	8	9
52	852	118	139894	125	958	7	8
53	734	118	769	125	965	7	7
54	617	117	645	124	972	7	6
55	499	118	520	125	979	7	5
56	382	117	395	125	986	7	4
57	265	117	271	124	994	8	3
58	148	117	147	124	3001	7	2
59	031	117	023	124	008	7	1
60	141914	117	138899	124	015	7	0
							Min

Antilog.166. Log.76.Gr.

Gr. 14. Log. 104 Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
0	141914	117	138899	124	3015	8	60
1	797	116	775	124	023	7	59
2	681	116	651	124	030	7	58
3	565	117	527	123	037	8	57
4	448	116	404	123	045	7	56
5	332	115	281	124	052	7	55
6	217	116	157	123	059	7	54
7	101	116	034	123	066	8	53
8	140985	115	137911	122	074	7	52
9	870	116	789	123	081	7	51
10	754	115	666	122	088	8	50
11	639	115	544	123	096	7	49
12	524	115	421	122	3103	7	48
13	409	114	299	122	110	8	47
14	295	115	177	122	118	7	46
15	180	114	055	122	125	8	45
16	066	115	136933	122	133	7	44
17	139951	114	811	121	140	7	43
18	837	114	690	122	147	8	42
19	723	114	568	121	155	7	41
20	609	114	447	121	162	8	40
21	495	113	326	121	170	7	39
22	382	114	205	121	177	8	38
23	268	113	084	121	185	7	37
24	155	113	135963	121	192	8	36
25	042	113	842	121	3200	7	35
26	138929	113	721	120	207	8	34
27	816	113	601	120	215	7	33
28	703	113	481	121	222	8	32
29	590	113	360	120	230	7	31
30	477		240		237		30

Mi[n]

Antilog. 165. Log 75 Gr

Gr.14. Logar. 104. Antilog.

Min.	Logarithmi	differ.	Mesologar. +	differ.	ogarith.	Diff	
30	138477		135240		3237		30
31	365	112	120	120	245	8	29
32	253	112	001	119	252	7	28
33	141	112	134881	120	260	8	27
34	029	112	761	120	267	7	26
35	137917	112	642	119	275	8	25
36	805	112	523	119	282	7	24
37	693	112	403	120	290	8	23
38	582	111	284	119	298	8	22
39	471	111	165	119	3305	7	21
40	359	112	047	118	313	8	20
41	248	111	133928	119	320	7	19
42	137	111	809	119	328	8	18
43	027	110	691	118	336	8	17
44	136916	111	573	118	343	7	16
45	805	111	454	119	351	8	15
46	695	110	336	118	359	8	14
47	585	110	218	118	366	7	13
48	474	111	101	117	374	8	12
49	364	110	132983	118	382	8	11
50	255	109	865	118	389	7	10
51	145	110	748	117	397	8	9
52	035	110	630	118	3405	8	8
53	135926	109	513	117	412	7	7
54	816	110	396	117	420	8	6
55	707	109	279	117	428	8	5
56	598	109	162	117	436	8	4
57	489	109	045	117	443	7	3
58	380	109	131929	116	451	8	2
59	271	169	812	117	459	8	1
60	163	108	696	116	467	8	0
							Min

Antilog.165. Log.75.Gr.

Gr. 15. Log. 105 Antilog.

Min	Logarithm	Differ.	Antilogarithm	Differ.	Logarithm	Diff.	
0	135163	109	131696	117	3467	8	60
1	054	108	579	116	475	7	59
2	134946	109	463	116	482	8	58
3	837	108	347	116	490	8	57
4	729	108	231	116	498	8	56
5	621	108	115	115	3506	8	55
6	513	107	000	116	514	8	54
7	406	108	130884	115	522	7	53
8	298	107	769	116	529	8	52
9	191	108	653	115	537	8	51
10	083	107	538	115	545	8	50
11	133976	107	423	115	553	8	49
12	869	107	308	115	561	8	48
13	762	107	193	115	569	8	47
14	655	107	078	115	577	8	46
15	548	106	129963	114	585	8	45
16	442	107	849	115	593	8	44
17	335	106	734	114	3601	8	43
18	229	107	620	114	609	8	42
19	122	106	506	114	617	8	41
20	016	106	392	114	625	7	40
21	132910	106	278	114	632	8	39
22	804	105	164	114	640	8	38
23	699	106	050	114	648	8	37
24	593	106	128936	113	656	9	36
25	487	105	823	114	665	8	35
26	382	105	709	113	673	8	34
27	277	106	596	113	681	8	33
28	171	105	483	113	689	8	32
29	066	105	370	113	697	8	31
30	131961		257		3705		30

Min.

Gr. 15. Log. 105. Antilog.

Min.	Logarithmi	Differ.	Mesolog ar. +	Differ.	Logarith.	Diff.	
30	131961	104	128257	113	3705	8	30
31	857	105	144	113	713	8	29
32	752	105	031	113	721	8	28
33	647	104	127918	112	729	8	27
34	543	105	806	113	737	8	26
35	438	104	693	112	745	8	25
36	334	104	581	112	753	8	24
37	230	104	469	113	761	9	23
38	126	104	356	112	770	8	22
39	022	104	244	112	778	8	21
40	130918	104	132	111	786	8	20
41	814	103	021	112	794	8	19
42	711	103	126909	112	3802	8	18
43	608	104	797	111	810	9	17
44	504	103	686	112	819	8	16
45	401	103	574	111	827	8	15
46	298	103	463	111	835	8	14
47	195	103	352	111	843	8	13
48	092	102	241	111	851	9	12
49	129990	103	130	111	860	8	11
50	887	103	019	111	868	8	10
51	784	102	125908	110	876	8	9
52	682	102	798	111	884	9	8
53	580	103	687	110	893	8	7
54	477	102	577	111	3901	8	6
55	375	101	466	110	909	9	5
56	274	101	356	110	918	8	4
57	173	102	246	110	926	8	3
58	071	102	136	110	934	9	2
59	128969	102	026	110	943	9	1
60	867		124916		951		0
							M n

Antilog. 164. Log. 74 Gr.

Gr. 16. Log. 106. Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	128867	101	124916	110	3951	8	60
1	766	102	806	109	959	9	59
2	664	101 -	697	110 -	968	8 -	58
3	563	101	587	109	976	8	57
4	462	101	478	110	984	9	56
5	361	101 -	368	109 -	993	8 -	55
6	260	101	259	109	4001	8	54
7	159	100	150	109	009	9	53
8	059	101 -	041	109 -	018	8 -	52
9	127958	100	123932	109	026	9	51
10	858	100	823	109	035	8	50
11	758	101 -	714	108 -	043	9 -	49
12	657	100	606	109	052	8	48
13	557	100	497	108	060	9	47
14	457	99 -	389	108 -	069	8 -	46
15	358	100	281	109	077	8	45
16	258	100	172	108	085	9	44
17	158	99 -	064	108 -	094	8 -	43
18	059	100	122956	108	4102	9	42
19	126959	99	848	108	111	9	41
20	860	99 -	740	107 -	120	8 -	40
21	761	99	633	108	128	9	39
22	662	99	525	107	137	8	38
23	563	99 -	418	108 -	145	9 -	37
24	464	99	310	107	154	8	36
25	365	99	203	108	162	9	35
26	266	98 -	121095	107 -	171	8 -	34
27	168	99	988	107	179	9	33
28	069	98	881	107	188	9	32
29	125971	98 -	774	107 -	197	8 -	31
30	873		667		4205		30
							Min

Antilog. 163. Log. 73 Gr.

Gr. 16. Log. 106. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff.	
30	125873		121667		4205		30
31	775	98	561	106	214	9	29
32	677	99	454	107	222	8	28
33	579	98	347	107	231	9	27
34	481	98	241	106	240	9	26
35	383	98	135	106	248	8	25
36	285	98	028	107	257	9	24
37	188	97	120922	106	266	9	23
38	090	98	816	106	274	8	22
39	124993	97	710	106	283	9	21
40	896	97	604	106	292	9	20
41	799	97	498	106	4301	9	19
42	702	97	392	106	309	8	18
43	605	97	287	105	318	9	17
44	508	97	181	106	327	9	16
45	411	97	076	105	335	8	15
46	315	96	119979	106	344	9	14
47	218	97	865	105	353	9	13
48	122	96	761	105	362	9	12
49	026	96	655	105	371	9	11
50	123929	97	550	105	379	8	10
51	833	96	445	105	388	9	9
52	737	96	340	105	397	9	8
53	641	96	236	104	4406	9	7
54	546	95	131	105	415	9	6
55	450	96	026	105	423	8	5
56	354	96	118922	104	432	9	4
57	259	95	818	104	441	9	3
58	163	96	713	105	450	9	2
59	068	95	609	104	459	9	1
60	122973	95	505	104	468	9	0

Min

Antilog 163. Log. 73 Gr.

Gr.17.Log. 107.Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
0	122973	95	118505	104	4468	9	60
1	878	95	401	104	477	9	59
2	783	95	297	104	486	9	58
3	688	95	193	103	495	9	57
4	593	95	090	104	4504	8	56
5	498	94	117986	103	512	9	55
6	404	95	882	103	521	9	54
7	309	94	779	103	530	9	53
8	215	94	676	104	539	9	52
9	121	95	572	103	548	9	51
10	026	94	469	103	557	9	50
11	121932	94	366	103	566	9	49
12	838	94	263	103	575	9	48
13	744	94	160	103	584	9	47
14	650	93	057	103	593	9	46
15	557	94	116954	102	4602	9	45
16	463	93	852	103	611	9	44
17	370	94	749	102	620	9	43
18	276	93	647	103	629	10	42
19	183	93	544	102	639	9	41
20	090	94	442	102	648	9	40
21	120996	93	340	102	657	9	39
22	903	93	238	102	666	9	38
23	810	93	136	102	675	9	37
24	717	92	034	102	684	9	36
25	625	93	115932	102	693	9	35
26	532	93	830	102	4702	9	34
27	439	92	728	102	711	9	33
28	347	92	626	101	720	10	32
29	255	93	525	102	730	9	31
30	162		423		739		30

Antilog. 162.Log. 72 Gr.

Gr. 17. Log. 107. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
30	120162	92	115423	101	4739	9	30
31	070	92	322	101	748	9	29
32	119978	92	221	102	757	9	28
33	886	92	119	101	766	10	27
34	794	92	018	101	776	9	26
35	702	92	114917	101	785	9	25
36	610	91	816	101	794	9	24
37	519	92	715	100	4803	10	23
38	427	91	615	101	813	9	22
39	336	92	514	101	822	9	21
40	244	91	413	100	831	9	20
41	153	91	313	101	840	10	19
42	062	91	212	100	850	9	18
43	118971	91	112	100	859	9	17
44	880	91	012	101	868	9	16
45	789	91	113911	100	877	10	15
46	698	91	811	100	887	9	14
47	607	90	711	100	896	9	13
48	517	91	611	100	4905	10	12
49	426	90	511	100	915	9	11
50	336	91	411	99	924	9	10
51	245	90	312	100	933	10	9
52	155	90	212	100	943	9	8
53	065	90	112	99	952	10	7
54	117975	90	013	99	962	9	6
55	885	90	112914	100	971	9	5
56	795	90	814	99	980	10	4
57	705	90	715	99	990	9	3
58	615	90	616	99	999	10	2
59	525	89	517	99	5009	9	1
60	436		418		018		0

Antilog. 162 Log 72 Gr.

Gr.18.Log. 108.Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	117436	90	112418	99	5018	10	60
1	346	89	319	99	028	9	59
2	257	89	220	99	037	10	58
3	168	90	121	99	047	9	57
4	078	89	022	98	056	10	56
5	116989	89	111924	99	066	9	55
6	900	89	825	98	075	10	54
7	811	89	727	99	085	9	53
8	722	88	628	98	094	10	52
9	634	89	530	98	5104	9	51
10	545	89	432	98	113	10	50
11	456	88	334	98	123	9	49
12	368	89	236	98	132	10	48
13	279	88	138	98	142	9	47
14	191	88	040	98	151	10	46
15	103	88	110942	98	161	10	45
16	015	88	844	98	171	9	44
17	115927	88	746	97	180	10	43
18	839	88	649	98	190	9	42
19	751	88	551	97	199	10	41
20	663	88	454	98	5209	10	40
21	575	88	356	97	219	9	39
22	487	87	259	97	228	10	38
23	400	88	162	97	238	10	37
24	312	87	065	97	248	9	36
25	225	87	109968	97	257	10	35
26	138	88	871	97	267	10	34
27	050	87	774	97	277	9	33
28	114963	87	677	97	286	10	32
29	876	87	580	97	296	10	31
30	789		483		5306		30
							Min.

Antilog. 161.Log. 71 Gr.

Gr. 18. Log. 108. Antilog.

Min.	Logarithmi	Differ.	Mesologar.	Differ.	Logarith.	Diff	
30	114789	87	109483	96	5306	10	30
31	702	86	387	97	316	9	29
32	616	87	290	96	325	10	28
33	529	87	194	97	335	10	27
34	442	86	097	96	345	10	26
35	356	87	001	96	355	10	25
36	269	86	108905	97	365	9	24
37	183	87	808	96	374	10	23
38	096	86	712	96	384	10	22
39	010	86	616	96	394	10	21
40	113924	86	520	96	5404	10	20
41	838	86	424	95	414	9	19
42	752	86	329	96	423	10	18
43	666	86	233	96	433	10	17
44	580	85	137	95	443	10	16
45	495	86	042	96	453	10	15
46	409	86	107946	95	463	10	14
47	323	85	851	96	473	10	13
48	238	86	755	95	483	10	12
49	152	85	660	95	493	9	11
50	067	85	565	96	5502	10	10
51	112982	85	469	95	512	10	9
52	897	85	374	95	522	10	8
53	812	85	279	95	532	10	7
54	727	85	184	95	542	10	6
55	642	85	089	94	552	10	5
56	557	85	106995	95	562	10	4
57	472	85	900	95	572	10	3
58	387	84	805	94	582	10	2
59	303	85	711	95	592	10	1
60	218		616		5602		0
							Min

Antilog. 161. Log. 71 Gr.

Gr.19. Logar. 109. Antilog.

Min.	Logarithmi	differ.	Mesologar. ±	differ.	Logarith	Diff	
0	112218		106616		5602		60
1	134	84	522	94	612	10	59
2	049	85	427	95	622	10	58
3	111965	84	333	94	632	10	57
4	881	84	239	94	642	10	56
5	797	84	144	95	652	10	55
6	713	84	050	94	662	10	54
7	629	84	105956	94	673	11	53
8	545	84	862	94	683	10	52
9	461	84	768	94	693	10	51
10	377	84	675	93	5703	10	50
11	294	83	581	94	713	10	49
12	210	84	487	94	723	10	48
13	127	83	394	93	733	10	47
14	043	84	300	94	743	10	46
15	110960	83	207	93	753	10	45
16	877	83	113	94	764	11	44
17	794	83	020	93	774	10	43
18	710	84	104926	94	784	10	42
19	627	83	833	93	794	10	41
20	544	83	740	93	5804	10	40
21	462	82	647	93	815	11	39
22	379	83	554	93	825	10	38
23	296	83	461	93	835	10	37
24	213	83	368	93	845	10	36
25	131	82	275	93	856	11	35
26	048	83	183	92	866	10	34
27	109966	82	090	93	876	10	33
28	884	82	103997	93	886	10	32
29	801	83	905	92	897	11	31
30	719	82	812	93	5907	10	30

Gr. 19. Log. 109. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
30	109719		103812		5907		30
31	637	82	720	92	917	10	29
32	555	82	628	92	928	11	28
33	473	82	535	93	938	10	27
34	391	82	443	92	948	10	26
35	309	82	351	92	959	11	25
36	228	81	259	92	969	10	24
37	146	82	167	92	979	10	23
38	064	82	075	92	990	11	22
39	108983	81	102983	92	6000	10	21
40	902	81	891	92	010	10	20
41	820	82	799	92	021	11	19
42	739	81	708	91	031	10	18
43	658	81	616	92	042	11	17
44	577	81	525	91	052	10	16
45	496	81	433	92	063	11	15
46	415	81	342	91	073	10	14
47	334	81	250	92	083	10	13
48	253	81	159	91	094	11	12
49	172	81	068	91	6104	10	11
50	091	81	101977	91	115	11	10
51	011	80	885	92	125	10	9
52	107930	81	794	91	136	11	8
53	850	80	703	91	146	10	7
54	769	81	612	91	157	11	6
55	689	80	522	90	167	10	5
56	609	80	431	91	178	11	4
57	529	80	340	91	189	11	3
58	448	81	249	91	199	10	2
59	368	80	159	91	6210	11	1
60	289	79	068	91	220	10	0

Mi.

Antilog. 160 Log 70 Gr

Gr. 20. Log. 110. Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarithm.	Diff.	
0	107289	80	101068	90	6220	11	60
1	209	80	100978	91	231	10	59
2	129	80--	887	90--	241	11	58
3	049	80	797	90	252	11	57
4	106969	79	707	90	263	10	56
5	890	80--	617	91--	273	11--	55
6	810	79	526	90	284	11	54
7	731	80	436	90	295	10	53
8	651	79--	346	90--	6305	11	52
9	572	79	256	90	316	11	51
10	493	79	166	90	327	10	50
11	414	79--	076	89--	337	11--	49
12	335	79	99987	90	348	11	48
13	256	79	897	90	359	10	47
14	177	79--	807	89--	369	11--	46
15	098	79	718	90	380	11	45
16	019	79	628	89	391	11	44
17	105940	78--	539	90--	6402	10-	43
18	862	79	449	89	412	11	42
19	783	79	360	89	423	11	41
20	704	78--	271	90--	434	11-	40
21	626	78	181	89	445	10	39
22	548	79	092	89	455	11	38
23	469	78--	003	89--	466	11	37
24	391	78	98914	89	477	11	36
25	313	78	825	89	488	11	35
26	235	78 -	736	89--	499	11-	34
27	157	78	647	89	6510	10	33
28	079	78	558	89	520	11	32
29	001	78--	469	88--	531	11--	31
30	104923		381		542		30

Antilog. 159. Log. 69 Gr.

Gr. 20. Log. 110. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
30	104923	78	98381	89	6542	11	30
31	845	78	292	89	553	11	29
32	767	77	203	88	564	11	28
33	690	78	115	89	575	11	27
34	612	77	026	88	586	11	26
35	535	78	97938	88	597	11	25
36	457	77	850	89	6608	11	24
37	380	77	761	88	619	11	23
38	303	77	673	88	630	10	22
39	226	78	585	88	640	11	21
40	148	77	497	88	651	11	20
41	071	77	409	88	662	11	19
42	103994	77	321	88	673	11	18
43	917	77	233	88	684	11	17
44	840	76	145	88	695	11	16
45	764	77	057	87	6706	11	15
46	687	77	96970	88	717	11	14
47	610	76	882	88	728	12	13
48	534	77	794	88	740	11	12
49	457	76	706	87	751	11	11
50	381	77	619	88	762	11	10
51	304	76	531	87	773	11	9
52	228	76	444	87	784	11	8
53	152	77	357	88	795	11	7
54	075	76	269	87	6806	11	6
55	102999	76	182	87	817	11	5
56	923	76	095	87	828	11	4
57	847	76	008	87	839	12	3
58	771	76	95921	87	851	11	2
59	695	76	834	87	862	11	1
60	619		747		873		0
							Min

Antilog. 159. Log. 69 Gr.

Gr.21. Logar. 111. Antilog.

Min	Logarithmi	differ.		Mesologar. +	differ.		Logarith	Diff	
0	102619			95747			6873	11	60
1	544	75		660	87		84	11	59
2	468	76		573	87		95	11	58
3	392	76		486	87		6906	12	57
4	317	75		399	87		18	11	56
5	241	76		313	86		29	11	55
6	166	75		226	87		40	11	54
7	091	75		139	87		51	11	53
8	015	76		053	86		62	12	52
9	101940	75		94966	87		74	11	51
10	865	75		880	86		85	11	50
11	790	75		794	56		96	11	49
12	715	75		707	87		7007	12	48
13	640	75		621	86		19	11	47
14	565	75		535	86		30	11	46
15	490	75		449	86		41	12	45
16	415	75		363	86		53	11	44
17	341	74		277	86		64	11	43
18	266	75		191	86		75	12	42
19	191	75		105	86		87	11	4
20	117	74		019	86		98	11	40
21	042	75		93933	86		7109	12	39
22	100968	74		847	86		21	11	38
23	894	74		762	85		32	12	37
24	820	74		676	86		44	11	36
25	745	75		590	86		55	11	35
26	671	74		505	85		66	12	34
27	597	74		419	86		78	11	33
28	523	74		334	85		89	12	32
29	449	74		248	86		7201	11	31
30	375	74		163	85		12		30
									Min

Gr. 21. Log. 111. Antilog.

Min.	Logarithmi	Differ.	Metalogar. +	Differ.	Logarith.	Diff.	
30	100375		93163		7212		30
31	301	74	078	85	24	12	29
32	228	73	92993	85	35	11	28
33	154	74	907	86	47	12	27
34	080	74	822	85	58	11	26
35	007	73	737	85	70	12	25
36	99933	74	652	85	81	11	24
37	860	73	567	85	93	12	23
38	787	73	482	85	7304	11	22
39	713	74	398	84	16	12	21
40	640	73	313	85	27	11	20
41	567	73	228	85	39	12	19
42	494	73	143	85	50	11	18
43	421	73	059	84	62	12	17
44	348	73	91974	85	74	12	16
45	275	73	890	84	85	11	15
46	202	73	805	85	97	12	14
47	129	73	721	84	7408	11	13
48	056	73	636	85	20	12	12
49	98984	72	552	84	32	12	11
50	911	73	468	84	43	11	10
51	838	73	383	85	55	12	9
52	766	72	299	84	67	12	8
53	693	73	215	84	78	11	7
54	621	72	131	84	90	12	6
55	549	72	047	84	7502	12	5
56	476	73	90963	84	13	11	4
57	404	72	879	84	25	12	3
58	332	72	795	84	37	12	2
59	260	72	711	84	49	12	1
60	188	72	628	83	60	11	0
							Min.

Antilog 158. Log 68 Gr.

Gr.22. Logar. 112 Antilog

Min.	Logarithmi	differ.	Mesologar. +	differ.	Logarith	Diff.	
0	98188		90628		7560	12	60
1	116	72	544	84	72	12	59
2	044	72	460	84	84	12	58
3	97972	72	377	83	96	11	57
4	900	72	293	84	7607	12	56
5	829	71	209	84	19	12	55
6	757	72	126	83	31	12	54
7	685	72	043	83	43	12	53
8	614	71	89959	84	55	11	52
9	542	72	876	83	66	12	51
10	471	71	793	83	78	12	50
11	400	71	709	84	90	12	49
12	328	72	626	83	7702	12	48
13	257	71	543	83	14	12	47
14	186	71	460	83	26	12	46
15	115	71	377	83	38	12	45
16	044	71	294	83	50	12	44
17	96973	71	211	83	62	11	43
18	902	71	128	83	73	12	42
19	831	71	045	83	85	12	41
20	760	71	88962	83	97	12	40
21	689	71	880	82	7809	12	39
22	618	71	797	83	21	12	38
23	548	70	714	83	33	12	37
24	477	71	632	82	45	12	36
25	407	70	549	83	57	12	35
26	336	71	467	82	69	12	34
27	266	70	384	83	81	12	33
28	195	71	302	82	93	12	32
29	125	70	220	82	7905	12	31
30	055	70	137	83	17		30
							Min

Antilog.157. Log.67.Gr.

Gr. 22. Log. 112. Antilog.

Min.	Logarithmi	Differ.	Mesologar +	Differ	Logarith	Diff.	
30	96055	71	88137	82	7917	12	30
31	95984	70	055	82	29	12	29
32	914	70	87973	82	41	13	28
33	844	70	891	82	54	12	27
34	774	70	809	82	66	12	26
35	704	70	727	82	78	12	25
36	634	69	645	82	90	12	24
37	565	70	563	82	8002	12	23
38	495	70	481	82	14	12	22
39	425	70	399	82	26	12	21
40	355	69	317	82	38	12	20
41	286	70	235	82	50	13	19
42	216	69	153	81	63	12	18
43	147	70	072	82	75	12	17
44	077	65	86990	81	87	12	16
45	008	70	909	82	99	12	15
46	94938	69	827	81	8111	13	14
47	869	69	746	82	24	12	13
48	800	69	664	81	36	12	12
49	731	69	583	82	48	12	11
50	662	69	501	81	60	13	10
51	593	69	420	81	73	12	9
52	524	69	339	82	85	12	8
53	455	69	257	81	97	12	7
54	386	69	176	81	8209	13	6
55	317	69	095	81	22	12	5
56	248	69	014	81	34	12	4
57	179	68	85933	81	46	13	3
58	111	69	852	81	59	12	2
59	042	68	771	81	71	12	1
60	93974		690		83		0

Min

Antilog 157. Log 67 Gr

Gr. 23. Log. 113. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	93974	69	85690	81	8283	13	60
1	905	68	609	80	96	12	59
2	837	69	529	81	8308	12	58
3	768	68	448	81	20	13	57
4	700	68	367	81	33	12	56
5	632	69	286	80	45	13	55
6	563	68	206	81	58	12	54
7	495	68	125	80	70	12	53
8	427	68	045	81	82	13	52
9	359	68	84964	80	95	12	51
10	291	68	884	81	8407	13	50
11	223	68	803	80	20	12	49
12	155	68	723	80	32	13	48
13	087	67	643	81	45	12	47
14	020	68	562	80	57	13	46
15	92952	68	482	80	70	12	45
16	884	68	402	80	82	13	44
17	816	67	322	80	95	12	43
18	749	68	242	80	8507	13	42
19	681	67	162	80	20	12	41
20	614	67	082	80	32	13	40
21	547	68	002	80	45	12	39
22	479	67	83922	80	57	13	38
23	412	67	842	80	70	13	37
24	345	68	762	80	83	12	36
25	277	67	682	79	95	13	35
26	210	67	603	80	8608	12	34
27	143	67	523	80	20	13	33
28	076	67	443	79	33	13	32
29	009	67	364	80	46	12	31
30	91942		284		58		30
							Min

Antilog. 156. Log. 66 Gr.

Gr. 23. Log. 113. Antilog.

Min.	Logarithmi	Differ.	Mesologar +	Differ.	Logarith	Diff	
30	91942	67	83284	79	8658	13	30
31	875	66	205	80	71	13	29
32	809	67	125	79	84	12	28
33	742	67	046	80	96	13	27
34	675	67	82966	79	8709	13	26
35	608	66	887	79	22	12	25
36	542	67	808	80	34	13	24
37	475	66	728	79	47	13	23
38	409	67	649	79	60	12	22
39	342	66	570	79	72	13	21
40	276	66	491	79	85	13	20
41	210	67	412	79	98	13	19
42	143	66	333	79	8811	12	18
43	077	66	254	79	23	13	17
44	011	66	175	79	36	13	16
45	90945	66	096	79	49	13	15
46	879	66	017	79	62	13	14
47	813	66	81938	79	75	13	13
48	747	66	859	79	88	12	12
49	681	66	780	78	8900	13	11
50	615	66	702	79	13	13	10
51	549	66	623	79	26	13	9
52	483	65	544	78	39	13	8
53	418	66	466	79	52	13	7
54	352	66	387	78	65	13	6
55	286	65	309	79	78	13	5
56	221	66	230	78	91	12	4
57	155	65	152	79	9003	13	3
58	090	66	073	78	16	13	2
59	024	65	80995	78	29	13	1
60	89959		917		42		0

Antilog. 156 Log 66 Gr Min

Gr.24.Log. 114.Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarithm.	Diff.	
0	89959	65	80917	79	9042	13	60
1	894	66	838	78	055	13	59
2	828	65	760	78	068	13	58
3	763	65	682	78	081	13	57
4	698	65	604	78	094	13	56
5	633	65	526	78	9107	13	55
6	568	65	448	78	120	13	54
7	503	65	370	78	133	13	53
8	438	65	292	78	146	13	52
9	373	65	214	78	159	13	51
10	308	65	136	78	172	13	50
11	243	64	058	78	185	13	49
12	179	65	79980	78	198	13	48
13	114	65	902	77	9211	14	47
14	049	64	825	78	225	13	46
15	88985	65	747	78	238	13	45
16	920	64	669	77	251	13	44
17	856	65	592	78	264	13	43
18	791	64	514	77	277	13	42
19	727	65	437	78	290	13	41
20	662	64	359	77	9303	13	40
21	598	64	282	78	316	14	39
22	534	64	204	77	330	13	38
23	470	65	127	78	343	13	37
24	405	64	049	77	356	13	36
25	341	64	88972	77	369	13	35
26	277	64	895	77	382	14	34
27	213	64	818	77	396	13	33
28	149	64	741	78	9409	13	32
29	085	63	663	77	422	13	31
30	022		586		435		30

Min

Antilog 155. Log. 65 Gr.

Gr. 24. Log. 114. Antilog.

Min.	Logarithmi.	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
30	88022	64	78586	77	9435	14	30
31	87958	64	509	77	449	13	29
32	894	64	432	77	462	13	28
33	830	63	355	77	475	13	27
34	767	64	278	77	488	14	26
35	703	63	201	76	9502	13	25
36	640	64	125	77	515	13	24
37	576	63	048	77	528	14	23
38	513	64	77971	77	542	13	22
39	449	63	894	77	555	13	21
40	386	64	817	76	568	14	20
41	322	63	741	77	582	13	19
42	259	63	664	77	595	14	18
43	196	63	587	76	9609	13	17
44	133	63	511	77	622	13	16
45	070	63	434	76	653	14	15
46	007	63	358	77	649	13	14
47	86944	63	281	76	662	14	13
48	881	63	205	76	676	13	12
49	818	63	129	77	689	13	11
50	755	63	052	76	9702	14	10
51	692	63	76976	76	716	13	9
52	629	63	900	77	729	14	8
53	566	62	823	76	743	13	7
54	504	63	747	76	756	14	6
55	441	63	671	76	770	13	5
56	378	62	595	76	783	14	4
57	316	63	519	76	797	14	3
58	253	62	443	76	9811	13	2
59	191	62	367	76	824	14	1
60	129		291		838		0

Min.
Antilog. 155. Log. 65 Gr.

Gr. 25. Log. 115. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
0	86129	63	76291	76	9838	13	60
1	066	62	215	76	851	14	59
2	004	62	139	76	865	13	58
3	85942	63	063	76	878	14	57
4	879	62	75987	75	892	14	56
5	817	62	912	76	9906	13	55
6	755	62	836	76	919	14	54
7	693	62	760	75	933	13	53
8	631	62	685	76	946	14	52
9	569	62	609	76	960	14	51
10	507	62	533	75	974	13	50
11	445	62	458	76	987	14	49
12	383	61	382	75	10001	14	48
13	322	62	307	76	015	14	47
14	260	62	231	75	029	13	46
15	198	62	156	75	042	14	45
16	136	61	081	76	056	14	44
17	075	62	005	75	070	13	43
18	013	61	74930	75	083	14	42
19	84952	62	855	76	097	14	41
20	890	61	779	75	10111	14	40
21	829	61	704	75	125	14	39
22	768	62	629	75	139	13	38
23	706	61	554	75	152	14	37
24	645	61	479	75	166	14	36
25	584	62	404	75	180	14	35
26	522	61	329	75	194	14	34
27	461	61	254	75	10208	13	33
28	400	61	179	75	221	14	32
29	339	61	104	75	235	14	31
30	278		029		2[illegible]9		30
							Min

Antilog. 154. Log. 64 Gr.

Gr. 25. Log. 115. Antilog.

M. n.	Logarithmi	Differ.	Mesologar. +	Differ.	ogarith	Diff.	
30	84278	61	74029	75	10249	14	30
31	217	61	73954	75	263	14	29
32	156	61	879	74	277	14	28
33	095	60	805	75	291	14	27
34	035	61	730	75	10305	14	26
35	83974	61	655	75	319	14	25
36	913	61	580	74	333	14	24
37	852	60	506	75	347	14	23
38	792	61	431	74	361	13	22
39	731	60	357	75	374	14	21
40	671	61	282	74	388	14	20
41	610	60	208	75	10402	14	19
42	550	61	133	74	416	14	18
43	489	60	059	75	430	14	17
44	429	60	72984	74	444	15	16
45	369	61	910	74	459	14	15
46	308	60	836	75	473	14	14
47	248	60	761	74	487	14	13
48	188	60	687	74	10501	14	12
49	128	60	613	74	515	14	11
50	068	61	539	74	529	14	10
51	007	60	465	75	543	14	9
52	82947	60	390	74	557	14	8
53	887	59	316	74	571	14	7
54	828	60	242	74	585	14	6
55	768	60	168	74	599	14	5
56	708	60	094	74	10613	15	4
57	648	60	020	74	628	14	3
58	588	59	71946	73	642	14	2
59	529	60	873	74	656	14	1
60	469		799		670		0
							Min.

Antilog 154. Log 64 Gr.

Gr. 26. Log. 116. Antilog.

Min	Logarithmi	differ.	Mesologar. +	differ.	Logarith	Diff	
0	82469	60	71799	74	10670	14	60
1	409	59	725	74	684	15	59
2	350	60	651	74	699	14	58
3	290	59	577	73	713	14	57
4	231	60	504	74	727	14	56
5	171	59	430	74	741	14	55
6	112	60	356	73	755	15	54
7	052	59	283	74	770	14	53
8	81993	59	209	73	784	14	52
9	934	59	136	74	798	15	51
10	875	59	062	73	813	14	50
11	816	60	70989	74	827	14	49
12	756	59	915	73	841	14	48
13	697	59	842	74	855	15	47
14	638	59	768	73	870	14	46
15	579	59	695	73	884	14	45
16	520	59	622	73	898	15	44
17	461	59	549	74	913	14	43
18	402	58	475	73	927	15	42
19	344	59	402	73	942	14	41
20	285	59	329	73	956	14	40
21	226	59	256	73	970	15	39
22	167	58	183	73	985	14	38
23	109	59	110	74	999	15	37
24	050	58	036	73	11014	14	36
25	80992	59	69963	73	028	15	35
26	933	59	890	73	043	14	34
27	874	58	817	72	057	14	33
28	816	58	745	73	071	15	32
29	758	59	672	73	086	14	31
30	699		599		100		30

Min.

Gr. 26. Log. 116. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
30	80699	58	69599	73	11100	15	30
31	641	58	526	73	115	15	29
32	583	59	453	73	130	14	28
33	524	58	380	72	144	15	27
34	466	58	308	73	159	14	26
35	408	58	235	73	173	15	25
36	350	58	162	72	188	14	24
37	292	58	090	73	202	15	23
38	234	58	017	73	217	14	22
39	176	58	68944	72	231	15	21
40	118	58	872	73	246	15	20
41	060	58	799	72	261	14	19
42	002	58	727	73	275	15	18
43	79944	57	654	72	290	15	17
44	887	58	582	72	305	14	16
45	829	58	510	73	319	15	15
46	771	57	437	72	334	15	14
47	714	58	365	72	349	14	13
48	656	58	293	73	363	15	12
49	598	57	220	72	378	15	11
50	541	58	148	72	393	14	10
51	483	57	076	72	407	15	9
52	426	57	004	72	422	15	8
53	369	58	67932	72	437	15	7
54	311	57	860	73	452	14	6
55	254	57	787	72	466	15	5
56	197	58	715	72	481	15	4
57	139	57	643	72	496	15	3
58	082	57	571	72	511	15	2
59	025	57	499	71	526	14	1
60	78968		428		540		0
							Min

Antilog. 153. Log 63 Gr

Gr.27. Logar. 117. Antilog.

Min	Logarithmi	differ.	Mesologar. +	differ.	Logarith	Diff.	
0	78968		67428		11540	15	60
1	911	57	356	72	555	15	59
2	854	57	284	72	570	15	58
3	797	57	212	72	585	15	57
4	740	57	140	72	600	15	56
5	683	57	068	72	615	14	55
6	626	57	66997	71	629	15	54
7	569	57	925	72	644	15	53
8	512	57	853	72	659	15	52
9	456	56	782	71	674	15	51
10	399	57	710	72	689	15	50
11	342	57	638	72	704	15	49
12	286	56	567	71	719	15	48
13	229	57	495	72	734	15	47
14	173	56	424	71	749	15	46
15	116	57	352	72	764	15	45
16	060	56	281	71	779	15	44
17	003	57	209	72	794	15	43
18	77947	56	138	71	809	15	42
19	891	56	067	71	824	15	41
20	834	57	65995	72	839	15	40
21	778	56	924	71	854	15	39
22	722	56	853	71	869	15	38
23	666	56	782	71	884	15	37
24	609	57	710	72	899	15	36
25	553	56	639	71	914	15	35
26	497	56	568	71	929	15	34
27	441	56	497	71	944	14	33
28	385	56	426	71	960	15	32
29	329	56	355	71	975	15	31
30	273	56	284	71	900		30

Min.

Antilog.152. Log.62.Gr.

Gr. 27. Log. 117. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff.	
30	77273	55	65284	71	11990	15	30
31	218	56	213	71	12005	15	29
32	162	56	142	71	020	15	28
33	106	56	071	71	035	15	27
34	050	55	000	71	050	16	26
35	76995	56	64929	71	066	15	25
36	939	56	858	71	081	15	24
37	883	55	787	71	096	15	23
38	828	56	716	70	111	16	22
39	772	55	646	71	127	15	21
40	717	56	575	71	142	15	20
41	661	55	504	71	157	15	19
42	606	56	433	70	172	16	18
43	550	55	363	71	188	15	17
44	495	55	292	70	203	15	16
45	440	56	222	71	218	15	15
46	384	55	151	71	233	16	14
47	329	55	080	70	249	15	13
48	274	55	010	71	264	15	12
49	219	55	63939	70	279	16	11
50	164	55	869	71	295	15	10
51	109	55	798	70	310	16	9
52	054	55	728	70	326	15	8
53	75999	55	658	71	341	15	7
54	944	55	587	70	356	16	6
55	889	55	517	70	372	15	5
56	834	55	447	71	387	16	4
57	779	55	376	70	403	15	3
58	724	55	306	70	418	15	2
59	669	54	236	70	433	16	1
60	615		166		449		0

Min
Antilog 152. Log. 62 Gr

Gr. 28. Log. 118. Antilog.

Min	Logarithmi	differ.		Mesologar. +	differ.		Logarith	Diff		
0	75615			63166			12449			60
1	560	55		096	70		464	15		59
2	505	55		025	71		480	16		58
3	451	54		62955	70		495	15		57
4	396	55		885	70		511	16		56
5	342	54		815	70		526	15		55
6	287	55		745	70		542	16		54
7	233	54		675	70		558	16		53
8	178	55		605	70		573	15		52
9	124	54		535	70		589	16		51
10	070	54		465	70		604	15		50
11	015	55		395	70		620	16		49
12	74961	54		326	69		635	15		48
13	907	54		256	70		651	16		47
14	853	54		186	70		667	16		46
15	798	54		116	70		682	15		45
16	744	54		046	70		698	16		44
17	690	54		61977	69		713	15		43
18	636	54		907	70		729	16		42
19	582	54		837	70		745	16		41
20	528	54		768	69		760	15		40
21	474	54		698	70		776	16		39
22	420	54		629	69		792	16		38
23	367	53		559	70		808	16		37
24	313	54		489	70		823	15		36
25	259	54		420	69		839	16		35
26	205	54		351	69		855	16		34
27	151	54		281	70		870	15		33
28	098	53		212	69		886	16		32
29	044	54		142	70		902	16		31
30	73991	53		073	69		918	16		30
										Min.

Gr. 28. Log. 118. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff.	
30	73991	54	61073	70	12918	16	30
31	937	54	003	69	934	15	29
32	883	53	60934	69	949	16	28
33	830	53	865	70	965	16	27
34	777	54	795	69	981	16	26
35	723	53	726	69	997	16	25
36	670	54	657	69	13013	16	24
37	616	53	588	69	029	16	23
38	563	53	519	70	045	15	22
39	510	53	449	69	060	16	21
40	457	54	380	69	076	16	20
41	403	53	311	69	092	16	19
42	350	53	242	69	108	16	18
43	297	53	173	69	124	16	17
44	244	53	104	69	140	16	16
45	191	53	035	69	156	16	15
46	138	53	59966	69	172	16	14
47	085	53	897	69	188	16	13
48	032	53	828	69	204	16	12
49	72979	53	759	68	220	16	11
50	926	52	691	69	236	16	10
51	874	53	622	69	252	16	9
52	821	53	553	69	268	16	8
53	768	53	484	69	284	16	7
54	715	52	415	68	300	16	6
55	663	53	347	69	316	16	5
56	610	53	278	69	332	16	4
57	557	52	209	68	348	16	3
58	505	53	141	69	364	16	2
59	452	52	072	69	380	16	1
60	400		003		397		0
							Min

Antilog 151. Log 61 Gr

Gr. 29. Logar. 119 Antilog

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
0	72400	53	59003	68	13397	16	60
1	347	52	58935	69	413	16	59
2	295	52	866	68	429	16	58
3	243	53	798	69	445	16	57
4	190	52	729	68	461	16	56
5	138	52	661	69	477	17	55
6	086	53	592	68	494	16	54
7	033	52	524	69	510	16	53
8	71981	52	455	68	526	16	52
9	929	52	387	69	542	16	51
10	877	52	318	68	558	17	50
11	825	52	250	68	575	16	49
12	773	52	182	68	591	16	48
13	721	52	114	69	607	16	47
14	669	52	045	68	623	17	46
15	617	52	57977	68	640	16	45
16	565	52	909	68	656	16	44
17	513	52	841	69	672	17	43
18	461	52	772	68	689	16	42
19	409	52	704	68	705	16	41
20	357	51	636	68	721	17	40
21	306	52	568	68	738	16	39
22	254	52	500	68	754	16	38
23	202	51	432	68	770	17	37
24	151	52	364	68	787	16	36
25	099	52	296	68	803	17	35
26	048	51	228	68	820	16	34
27	70996	51	160	68	836	16	33
28	945	52	092	68	852	17	32
29	893	51	024	68	869	16	31
30	842		56956		885		30
							Min

Antilog. 150. Log. 60 Gr.

Gr. 29. Log. 119. Antilog.

Min.	Logarithmi.	iffer.	Mesologar. +	Differ.	Logarith.	Diff	
30	70842	52	56956	68	13885	17	30
31	790	51	888	67	902	16	29
32	739	52	821	68	918	17	28
33	687	51	753	68	935	16	27
34	636	51	685	68	951	17	26
35	585	51	617	68	968	16	25
36	534	51	549	67	984	17	24
37	483	52	482	68	14001	16	23
38	431	51	414	68	017	17	22
39	380	51	346	67	034	16	21
40	329	51	279	68	050	17	20
41	278	51	211	67	067	16	19
42	227	51	144	68	084	17	18
43	176	51	076	68	100	17	17
44	125	51	008	67	117	16	16
45	074	51	55941	68	133	17	15
46	023	50	873	67	150	17	14
47	69973	51	806	68	167	16	13
48	922	51	738	67	183	17	12
49	871	51	671	67	200	17	11
50	820	50	604	68	217	16	10
51	770	51	536	67	233	17	9
52	719	51	469	68	250	17	8
53	668	50	401	67	267	17	7
54	618	51	334	67	284	16	6
55	567	51	267	68	300	17	5
56	516	50	199	67	317	17	4
57	466	50	132	67	334	17	3
58	416	51	065	67	351	16	2
59	365	50	54998	67	367	17	1
60	315		931		384		0

Min.

Antilog. 150. Log. 60 Gr.

Gr. 30. Log. 120. Antilog.

Min	Logarithmi	Differ	Mesologar. +	Differ.	Logarith.	Diff.	
0	69315	51	54931	68	14384	17	60
1	264	50	863	67	401	17	59
2	214	50	796	67	418	17	58
3	164	51	729	67	435	16	57
4	113	50	662	67	451	17	56
5	063	50	595	67	468	17	55
6	013	50	528	67	485	17	54
7	68963	50	461	67	502	17	53
8	913	50	394	67	519	17	52
9	863	50	327	67	536	17	51
10	813	51	260	67	553	17	50
11	762	50	193	67	570	16	49
12	712	50	126	67	586	17	48
13	662	49	059	67	603	17	47
14	613	50	53992	67	620	17	46
15	563	50	925	66	637	17	45
16	513	50	859	67	654	17	44
17	463	50	792	67	671	17	43
18	413	50	725	67	688	17	42
19	363	49	658	67	705	17	41
20	314	50	591	67	722	17	40
21	264	50	525	67	739	17	39
22	214	49	458	67	756	17	38
23	165	50	391	66	773	17	37
24	115	49	325	67	790	18	36
25	066	50	258	67	808	17	35
26	016	49	191	66	825	17	34
27	67967	50	125	67	842	17	33
28	917	49	058	66	859	17	32
29	868	50	52992	67	876	17	31
30	818		925		893		30
							Min.

Antilog 149. Log. 59 Gr.

Gr. 30. Log. 120. Antilog.

Min.	Logarithmi	Differ.	Mesologar +	Differ.	Logarith.	Diff.	
30	67818	49	52925	66	14893	17	30
31	769	49	859	67	910	17	29
32	720	50	792	66	927	17	28
33	670	49	726	67	944	18	27
34	621	49	659	66	962	17	26
35	572	49	593	66	979	17	25
36	523	50	527	67	996	17	24
37	473	49	460	66	15013	17	23
38	424	49	394	67	030	18	22
39	375	49	327	66	048	17	21
40	326	49	261	66	065	17	20
41	277	49	195	66	082	17	19
42	228	49	129	67	099	18	18
43	179	49	062	66	117	17	17
44	130	49	51996	66	134	17	16
45	081	49	930	66	151	18	15
46	032	49	864	66	169	17	14
47	66983	48	798	67	186	17	13
48	935	49	731	66	203	18	12
49	886	49	665	66	221	17	11
50	837	49	599	66	238	17	10
51	788	48	533	66	255	18	9
52	740	49	467	66	273	17	8
53	691	49	401	66	290	18	7
54	642	48	335	66	308	17	6
55	594	49	269	66	325	17	5
56	545	48	203	66	342	18	4
57	497	49	137	66	360	17	3
58	448	48	071	66	377	18	2
59	400	49	005	66	395	17	1
60	351		50939		412		0
							Min

Antilog. 149. Log 59 Gr.

Gr. 31. Log. 121. Antilog.

Min.	Logarithmi	differ.		Mesologar. +	differ.		Logarith	Diff	
0	66351	48		50939	66		15412	18	60
1	303	48		873	66		430	17	59
2	255	49		807	65		447	18	58
3	206	48		742	66		465	17	57
4	158	48		676	66		482	18	56
5	110	49		610	66		500	17	55
6	061	48		544	66		517	18	54
7	013	48		478	65		535	17	53
8	65965	48		413	66		552	18	52
9	917	48		347	66		570	18	51
10	869	48		281	65		588	17	50
11	821	48		216	66		605	18	49
12	773	48		150	66		623	17	48
13	725	48		084	65		640	18	47
14	677	48		019	66		658	18	46
15	629	48		49953	65		676	17	45
16	581	48		888	66		693	18	44
17	533	48		822	66		711	18	43
18	485	48		756	65		729	17	42
19	437	47		691	66		746	18	41
20	390	48		625	65		764	18	40
21	342	48		560	66		782	18	39
22	294	48		494	65		800	17	38
23	246	47		429	65		817	18	37
24	199	48		364	66		835	18	36
25	151	48		298	65		853	18	35
26	103	47		233	66		871	18	34
27	056	48		167	65		889	17	33
28	008	47		102	65		906	18	32
29	64961	48		037	65		924	18	31
30	913			48972			942		30

Min.

Antilog. 148. Log. 58. Gr.

Gr. 31. Log. 121. Antilog.							
Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	D.ff	
30	64913	47	48972	66	15942	18	30
31	866	48	906	65	960	17	29
32	818	47	841	65	977	18	28
33	771	47	776	66	995	18	27
34	724	48	710	65	16013	18	26
35	676	47	675	65	031	18	25
36	629	47	580	65	049	18	24
37	582	47	515	65	067	18	23
38	535	48	450	65	085	18	22
39	487	47	385	65	103	18	21
40	440	47	320	66	121	18	20
41	393	47	254	65	139	18	19
42	346	47	189	65	157	17	18
43	299	47	124	65	174	18	17
44	252	47	059	65	192	18	16
45	205	47	47994	65	210	18	15
46	158	47	929	65	228	18	14
47	111	47	864	65	246	19	13
48	064	47	799	65	265	18	12
49	017	47	734	65	283	18	11
50	63970	47	669	64	301	18	10
51	923	47	605	65	319	18	9
52	876	46	540	65	337	18	8
53	830	47	475	65	355	18	7
54	783	47	410	65	373	18	6
55	736	46	345	65	391	18	5
56	690	47	280	65	409	18	4
57	643	47	216	65	427	18	3
58	596	46	151	65	445	19	2
59	550	47	086	65	464	8	1
60	503		021		482		0
							M.
				Antilog. 148 Log 58 Gr			

Gr.32.Log. 122.Antilog.

Min	Logarithmi.	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	63503	46	47021	64	16482	18	60
1	457	47	46957	65	500	18	59
2	410	46	892	65	518	18	58
3	364	47	827	65	536	19	57
4	317	46	762	64	555	18	56
5	271	47	698	65	573	18	55
6	224	46	633	64	591	18	54
7	178	46	569	65	609	19	53
8	132	47	504	65	628	18	52
9	085	46	439	64	646	18	51
10	039	46	375	65	664	18	50
11	62993	46	310	64	682	19	49
12	947	47	246	65	701	18	48
13	900	46	181	64	719	18	47
14	854	46	117	65	737	19	46
15	808	46	052	64	756	18	45
16	762	46	45988	65	774	19	44
17	716	46	923	64	793	18	43
18	670	46	859	64	811	18	42
19	624	46	795	65	829	19	41
20	578	46	730	64	848	18	40
21	532	46	666	64	866	19	39
22	486	46	602	65	885	18	38
23	440	46	537	64	903	18	37
24	394	45	473	64	921	19	36
25	349	46	409	65	940	18	35
26	303	46	344	64	958	19	34
27	257	46	280	64	977	18	33
28	211	45	216	64	995	19	32
29	166	46	152	64	17014	18	31
30	120		088		032		30

Mi.

Antilog 147. Log. 57 Gr.

Gr. 32. Log. 122. Antilog.

Min.	Logarithmi	Differ.	Mesologar. ∓	Differ.	Logarith.	Diff	
30	62120	46	45088	65	17032	19	30
31	074	45	023	64	051	18	29
32	029	46	44959	64	069	19	28
33	61983	46	895	64	088	19	27
34	937	45	831	64	107	18	26
35	892	46	767	64	125	19	25
36	846	45	703	64	144	18	24
37	801	45	639	64	162	19	23
38	756	46	575	65	181	19	22
39	710	45	510	64	200	18	21
40	665	46	446	64	218	19	20
41	619	45	382	64	237	19	19
42	574	45	318	64	256	18	18
43	529	45	254	63	274	19	17
44	484	46	191	64	293	19	16
45	438	45	127	64	312	18	15
46	393	45	063	64	330	19	14
47	348	45	43999	64	349	19	13
48	303	45	935	64	368	19	12
49	258	45	871	64	387	18	11
50	213	46	807	64	405	19	10
51	167	45	743	64	424	19	9
52	122	45	679	63	443	19	8
53	077	45	616	64	462	19	7
54	032	44	552	64	481	18	6
55	60988	45	488	64	499	19	5
56	943	45	424	63	518	19	4
57	898	45	361	64	537	19	3
58	853	45	297	64	556	19	2
59	808	45	233	64	575	19	1
60	763		169		594		0

Min. Antilog. 147 Log 57 Gr

Gr.33.Log. 123.Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	60763	45	43169	63	17594	19	60
1	718	44	106	64	613	19	59
2	674	45	042	64	622	18	58
3	629	45	42978	63	650	19	57
4	584	44	915	64	669	19	56
5	540	45	851	63	688	19	55
6	495	45	788	64	707	19	54
7	450	44	724	63	726	19	53
8	406	45	661	64	745	19	52
9	361	44	597	64	764	19	51
10	317	45	533	63	783	19	50
11	272	44	470	64	802	19	49
12	228	45	406	63	821	19	48
13	183	44	343	64	840	19	47
14	139	45	279	63	859	19	46
15	094	44	216	63	878	20	45
16	050	44	153	64	898	19	44
17	006	45	089	63	917	19	43
18	59961	44	026	64	936	19	42
19	917	44	41962	63	955	19	41
20	873	44	899	63	974	19	40
21	829	44	836	64	993	19	39
22	785	45	772	63	18012	19	38
23	740	44	709	63	031	20	37
24	696	44	646	64	051	19	36
25	652	44	562	63	070	19	35
26	608	44	519	63	089	19	34
27	564	44	456	63	108	19	33
28	520	44	393	64	127	20	32
29	476	44	329	63	147	19	31
30	432		266		166		30

M.

Antilog. 146. Log. 56 Gr.

Gr. 33. Log. 123. Antilog.

Min.	Logarithmi	Differ.	Mesologar +	Differ.	Logarith.	Diff.	
30	59432	44	41266	63	18166	19	30
31	388	44	203	63	185	19	29
32	344	44	140	63	204	20	28
33	300	43	077	63	224	19	27
34	257	44	014	64	243	19	26
35	213	44	40950	63	262	20	25
36	169	44	887	63	282	19	24
37	125	44	824	63	301	19	23
38	081	43	761	63	320	20	22
39	038	44	698	63	340	19	21
40	58994	44	635	63	359	19	20
41	950	43	572	63	378	20	19
42	907	44	509	63	398	19	18
43	863	43	446	63	417	20	17
44	820	44	383	63	437	19	16
45	776	44	320	63	456	19	15
46	732	43	257	63	475	20	14
47	689	43	194	63	495	19	13
48	646	44	131	63	514	20	12
49	602	43	068	63	534	19	11
50	559	44	005	63	553	20	10
51	515	43	39942	62	573	19	9
52	472	43	880	63	592	20	8
53	429	44	817	63	612	19	7
54	385	43	754	63	631	20	6
55	342	43	691	63	651	20	5
56	299	43	628	63	671	19	4
57	256	44	565	62	690	20	3
58	212	43	503	63	710	19	2
59	169	43	440	63	729	20	1
60	126		377		749		0
							Min.

Antilog. 146. Log. 56 Gr.

Gr. 34. Logar. 124 Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logaritn.	Diff.	
0	58126	43	39377	63	18749	20	60
1	083	43	314	62	769	19	59
2	040	43	252	63	788	20	58
3	57997	43	189	63	808	20	57
4	954	43	126	62	828	19	56
5	911	43	064	63	847	20	55
6	868	43	001	63	867	20	54
7	825	43	38938	62	887	19	53
8	782	43	876	63	906	20	52
9	739	43	813	63	926	20	51
10	696	43	750	62	946	20	50
11	653	43	688	63	966	19	49
12	610	42	625	62	985	20	48
13	568	43	563	63	19005	20	47
14	525	43	500	62	025	20	46
15	482	43	438	63	045	19	45
16	439	42	375	63	064	20	44
17	397	43	312	62	084	20	43
18	354	42	250	62	104	20	42
19	312	43	188	63	124	20	41
20	269	43	125	62	144	20	40
21	226	42	063	63	164	20	39
22	184	43	000	62	184	20	38
23	141	42	37938	63	204	19	37
24	099	43	875	62	223	20	36
25	056	42	813	62	243	20	35
26	014	43	751	63	263	20	34
27	56971	42	688	62	283	20	33
28	929	42	626	62	303	20	32
29	887	43	564	63	323	20	31
30	844		501		343		30
							Min

Antilog. 145. Log. 55 Gr.

Gr. 34. Log. 124. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
30	56844	42	37501	62	19343	20	30
31	802	42	439	62	363	20	29
32	760	43	377	63	383	20	28
33	717	42	314	62	403	20	27
34	675	42	252	62	423	20	26
35	633	42	190	62	443	20	25
36	591	42	128	63	463	20	24
37	549	42	065	62	483	20	23
38	507	43	003	62	503	21	22
39	464	42	36941	62	524	20	21
40	422	42	879	62	544	20	20
41	380	42	817	63	564	20	19
42	338	42	754	62	584	20	18
43	296	42	692	62	604	20	17
44	254	42	630	62	624	20	16
45	212	41	568	62	644	21	15
46	171	42	506	62	665	20	14
47	129	42	444	62	685	20	13
48	087	42	382	62	705	20	12
49	045	42	320	62	725	20	11
50	003	42	258	62	745	21	10
51	55961	41	196	62	766	20	9
52	920	42	134	62	786	20	8
53	878	42	072	62	806	21	7
54	836	42	010	62	827	20	6
55	794	41	35948	62	847	20	5
56	753	42	886	62	867	20	4
57	711	41	824	62	887	21	3
58	670	42	762	62	908	20	2
59	628	42	700	62	928	21	1
60	586		638		949		0
							Min.

Antilog. 145. Log. 55 Gr.

Gr.35. Logar. 125. Antilog

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	55586	41	35638	62	19949	20	60
1	545	42	576	62	969	20	59
2	503	41	514	62	989	21	58
3	462	42	452	62	20010	20	57
4	420	41	390	62	030	21	56
5	379	41	318	61	051	20	55
6	338	42	267	62	071	20	54
7	296	41	205	62	091	21	53
8	255	41	143	62	112	20	52
9	214	42	081	62	132	21	51
10	172	41	019	61	153	20	50
11	131	42	34958	62	173	21	49
12	090	42	896	62	194	20	48
13	048	41	834	62	214	21	47
14	007	41	772	61	235	20	46
15	54966	41	711	62	255	21	45
16	925	41	649	62	276	21	44
17	884	41	587	61	297	20	43
18	843	41	526	62	317	21	42
19	802	41	464	62	338	20	41
20	761	41	402	61	358	21	40
21	720	41	341	62	379	21	39
22	679	41	279	62	400	20	38
23	638	41	217	61	420	21	37
24	597	41	156	62	441	21	36
25	556	41	094	62	462	20	35
26	515	41	032	61	482	21	34
27	474	41	33971	62	503	21	33
28	433	40	909	61	524	21	32
29	393	41	848	62	545	20	31
30	352		786		565		30
							M.v

Antilog. 144. Log. 54 Gr.

Gr. 35. Log. 125. Antilog.

Min.	Logarithmi	Differ.	Mesologar ✣	Differ.	Logarith.	Diff	
30	54352	41	33786	61	20565	21	30
31	311	41	725	61	586	21	29
32	270	41	664	62	607	21	28
33	229	40	602	62	628	20	27
34	189	41	540	61	648	21	26
35	148	41	479	62	669	21	25
36	107	40	417	61	690	21	24
37	067	41	356	62	711	21	23
38	026	40	294	61	732	21	22
39	53986	41	233	61	753	20	21
40	945	41	172	62	773	21	20
41	904	40	110	61	794	22	19
42	864	40	049	62	815	21	18
43	824	41	32987	61	836	21	17
44	783	40	926	61	857	21	16
45	743	41	865	62	878	21	15
46	702	40	803	61	899	21	14
47	662	40	742	61	920	21	13
48	622	41	681	62	941	21	12
49	581	40	619	61	962	21	11
50	541	40	558	61	983	21	10
51	501	41	497	61	21004	21	9
52	460	40	436	62	025	21	8
53	420	40	374	61	046	21	7
54	380	40	313	61	067	21	6
55	340	40	252	61	088	21	5
56	300	40	191	62	109	21	4
57	260	41	129	61	130	21	3
58	219	40	068	61	151	21	2
59	179	40	007	61	172	22	1
60	139		31946		194		0
							Min.

Antilog. 144. Log. 54 Gr.

Gr.36.Log. 126.Antilog.

Min	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	53139	40	31946	61	21194	21	60
1	099	40	885	62	215	21	59
2	059	40	823	61	236	21	58
3	019	40	762	61	257	21	57
4	52979	40	701	61	278	21	56
5	939	39	640	61	299	22	55
6	900	40	579	61	321	21	54
7	860	40	518	61	342	21	53
8	820	40	457	61	363	21	52
9	780	40	396	61	384	22	51
10	740	40	335	61	406	21	50
11	700	39	274	61	427	21	49
12	661	40	213	61	448	21	48
13	621	40	152	61	469	22	47
14	581	39	091	61	491	21	46
15	542	40	030	61	512	21	45
16	502	40	30969	61	533	22	44
17	462	39	908	61	555	21	43
18	423	40	847	61	576	21	42
19	383	40	786	61	597	22	41
20	343	39	725	61	619	21	40
21	304	40	664	61	640	22	39
22	264	39	603	61	662	21	38
23	225	40	542	61	683	21	37
24	185	39	481	61	704	22	36
25	146	39	420	61	726	21	35
26	107	40	359	61	747	22	34
27	067	39	298	61	769	21	33
28	028	40	237	60	790	22	32
29	51988	39	177	61	812	21	31
30	949		116		833		30
							Min

Antilog. 143. Log. 53 Gr.

Gr. 36. Log. 126. Antilog.

Min.	Logarithmi	Differ.	Meinologar. +	Differ.	Logarithmi	Diff.	
30	51949	39	30116	61	21833	22	30
31	910	39	055	61	855	21	29
32	871	40	29994	61	876	22	28
33	831	39	933	60	898	22	27
34	792	39	873	61	920	21	26
35	753	39	812	61	941	22	25
36	714	39	751	61	963	21	24
37	675	40	690	61	984	22	23
38	635	39	629	60	22006	22	22
39	596	39	569	61	028	21	21
40	557	39	508	61	049	22	20
41	518	39	447	61	071	22	19
42	479	39	386	60	093	21	18
43	440	39	326	61	114	22	17
44	401	39	265	61	136	22	16
45	362	39	204	60	158	21	15
46	323	39	144	61	179	22	14
47	284	39	083	61	201	22	13
48	245	38	022	60	223	22	12
49	207	39	28962	61	245	22	11
50	168	39	901	60	267	21	10
51	129	39	841	61	288	22	9
52	090	39	780	61	310	22	8
53	051	38	719	60	332	22	7
54	013	39	659	61	354	22	6
55	50974	39	598	60	376	21	5
56	935	39	538	61	397	22	4
57	896	38	477	60	419	22	3
58	858	39	417	61	441	22	2
59	819	39	356	61	463	22	1
60	780		295		485		0
							Min

Antilog. 143. Log. 53 Gr.

Gr. 37. Logar. 127. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
0	50780	38	28295	60	22485	22	60
1	742	39	235	61	507	22	59
2	703	38	174	60	529	22	58
3	665	39	114	61	551	22	57
4	626	38	053	60	573	22	56
5	588	39	27993	61	595	22	55
6	549	38	932	60	617	22	54
7	511	39	872	60	639	22	53
8	472	38	812	61	661	22	52
9	434	38	751	60	683	22	51
10	396	39	691	61	705	22	50
11	357	38	630	60	727	22	49
12	319	38	570	61	749	22	48
13	281	39	509	60	771	22	47
14	242	38	449	60	793	22	46
15	204	38	389	61	815	22	45
16	166	38	328	60	837	23	44
17	128	39	268	60	860	22	43
18	089	38	208	61	882	22	42
19	051	38	147	60	904	22	41
20	013	38	087	60	926	22	40
21	49975	38	027	61	948	23	39
22	937	38	26966	60	971	22	38
23	899	38	906	60	993	22	37
24	861	38	846	61	23015	22	36
25	823	38	785	60	037	23	35
26	785	38	725	60	060	22	34
27	747	38	665	60	082	22	33
28	709	38	605	61	104	22	32
29	671	38	544	60	126	23	31
30	633		484		149		30
							Min.

Antilog. 142. Log. 52 Gr.

Gr. 37. Log. 127. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
30	49633	38	26484	60	23149	22	30
31	595	38	424	60	171	22	29
32	557	38	364	60	193	23	28
33	519	38	304	61	216	22	27
34	481	37	243	60	238	22	26
35	444	38	183	60	260	23	25
36	406	38	123	60	283	22	24
37	368	38	063	60	305	23	23
38	330	37	003	60	328	22	22
39	293	38	25943	61	350	23	21
40	255	38	882	60	373	22	20
41	217	37	822	60	395	22	19
42	180	38	762	60	417	23	18
43	142	38	702	60	440	22	17
44	104	37	642	60	462	23	16
45	067	38	582	60	485	23	15
46	029	37	522	60	508	22	14
47	48992	38	462	60	530	23	13
48	954	37	402	61	553	22	12
49	917	38	341	60	575	23	11
50	879	37	281	60	598	22	10
51	842	38	221	60	620	23	9
52	804	37	161	60	643	23	8
53	767	37	101	60	666	22	7
54	730	38	041	60	688	23	6
55	692	37	24981	60	711	23	5
56	655	37	921	60	734	22	4
57	618	38	861	60	756	23	3
58	580	37	801	60	779	23	2
59	543	37	741	60	802	22	1
60	506		681		824		0
							Min

Antilog 142. Log. 52 Gr.

Gr. 38. Log. 128. Antilog.

Min	Logarithmi	differ.	Meslogar +	differ.	Logarith.	Diff	
0	48506	37	24681	60	23824	23	60
1	469	38	621	59	847	23	59
2	431	37	562	60	870	23	58
3	394	37	502	60	893	22	57
4	357	37	442	60	915	23	56
5	320	37	382	60	938	23	55
6	283	37	322	60	961	23	54
7	246	37	262	60	984	23	53
8	209	37	202	60	24007	22	52
9	172	37	142	60	029	23	51
10	135	37	082	60	052	23	50
11	098	37	022	59	075	23	49
12	061	37	23963	60	098	23	48
13	024	37	903	60	121	23	47
14	47987	37	843	60	144	23	46
15	950	37	783	60	167	23	45
16	913	37	723	60	199	23	44
17	876	37	663	59	213	23	43
18	839	37	604	60	236	23	42
19	802	37	544	60	259	23	41
20	766	37	484	60	282	23	40
21	729	37	424	60	305	23	39
22	692	37	364	59	328	23	38
23	655	36	305	60	351	23	37
24	619	37	245	60	374	23	36
25	582	37	185	60	397	23	35
26	545	36	125	59	420	23	34
27	509	37	066	60	443	23	33
28	472	37	006	60	466	23	32
29	435	36	22946	60	489	23	31
30	399		886		512		30
							Min

Antilog.141. Log.51.Gr.

Gr. 38. Log. 128. Antilog.

Min.	Logarithmi	Differ.	Antilogar. +	Differ.	Logarith.	Diff.	
30	47399		22887		24512		30
31	362	37	827	60	535	23	29
32	326	36	767	60	559	24	28
33	289	37	707	60	582	23	27
34	253	36	648	59	605	23	26
35	216	37	588	60	628	23	25
36	180	36	528	60	651	23	24
37	143	37	469	59	675	24	23
38	107	36	409	60	698	23	22
39	071	36	349	60	721	23	21
40	034	37	290	59	744	23	20
41	46998	36	230	60	768	24	19
42	962	36	171	59	791	23	18
43	925	37	111	60	814	23	17
44	889	36	051	60	838	24	16
45	853	36	21992	59	861	23	15
46	816	37	932	60	884	23	14
47	780	36	873	59	908	24	13
48	744	36	813	60	931	23	12
49	708	36	753	60	954	23	11
50	672	36	694	59	978	24	10
51	636	36	634	60	25001	23	9
52	600	36	575	59	025	24	8
53	563	37	515	60	048	23	7
54	527	36	456	59	072	24	6
55	491	36	396	60	095	23	5
56	455	36	337	59	119	24	4
57	419	36	277	60	142	23	3
58	383	36	218	59	166	24	2
59	347	36	158	60	189	23	1
60	311	36	099	59	213	24	0

Min

Antilog 141. Log. 51 Gr

Gr. 39. Log. 129. Antilog.

Min.	Logarithmi	differ.		Mesologar. +	differ.		Logarith	Diff	
0	46311			21099			25213		60
1	276	35		039	60		236	23	59
2	240	36		20980	59		260	24	58
3	204	36		920	60		283	23	57
4	168	36		861	59		307	24	56
5	132	36		801	60		331	24	55
6	096	36		742	59		354	23	54
7	061	35		683	59		378	24	53
8	025	36		623	60		402	24	52
9	45989	36		564	59		425	23	51
10	953	36		504	60		449	24	50
11	918	35		445	59		473	24	49
12	882	36		386	59		496	23	48
13	846	36		326	60		520	24	47
14	811	35		267	59		544	24	46
15	775	36		207	60		568	24	45
16	739	36		148	59		591	23	44
17	704	35		089	59		615	24	43
18	668	36		029	60		639	24	42
19	633	35		19970	59		663	24	41
20	597	36		911	59		687	24	40
21	562	35		851	60		710	23	39
22	526	36		792	59		734	24	38
23	491	35		733	59		758	24	37
24	455	36		673	60		782	24	36
25	420	35		614	59		806	24	35
26	385	35		555	59		830	24	34
27	349	36		495	60		854	24	33
28	314	35		436	59		878	24	32
29	279	35		377	59		902	24	31
30	243	36		318	59		926	24	30

Gr. 39. Log. 129. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Diffe.	Logarith.	Diff.	
30	45243		19318		25926		30
31	208	35	258	60	950	24	29
32	173	35	199	59	974	24	28
33	138	35	140	59	998	24	27
34	102	36	081	59	26022	24	26
35	067	35	021	60	046	24	25
36	032	35	18962	59	070	24	24
37	44997	35	903	59	094	24	23
38	962	35	844	59	118	24	22
39	927	35	785	59	142	24	21
40	892	35	725	60	166	24	20
41	856	36	666	59	190	24	19
42	821	35	607	59	214	24	18
43	786	35	548	59	239	25	17
44	751	35	489	59	263	24	16
45	716	35	429	60	287	24	15
46	681	35	370	59	311	24	14
47	646	35	311	59	335	24	13
48	612	34	252	59	360	25	12
49	577	35	193	59	384	24	11
50	542	35	134	59	408	24	10
51	507	37	074	60	432	24	9
52	472	35	015	59	457	25	8
53	437	35	17956	59	481	24	7
54	402	35	897	59	505	24	6
55	368	34	838	59	530	25	5
56	333	35	779	59	554	24	4
57	298	35	720	59	578	24	3
58	263	35	661	59	603	25	2
59	229	34	602	59	627	24	1
60	194	35	543	59	651	24	0

Min

Antilog 140. Log 50 Gr.

Gr. 40. Logar. 130. Antilog

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	D.ff	
0	44194	35	17543	59	26651	25	60
1	159	34	484	60	676	24	59
2	125	35	424	59	700	25	58
3	090	34	365	59	725	24	57
4	056	35	306	59	749	25	56
5	021	35	247	59	774	24	55
6	43986	34	188	59	798	25	54
7	952	35	129	59	823	24	53
8	917	34	070	59	847	25	52
9	883	35	011	59	872	24	51
10	848	34	16952	59	896	25	50
11	814	34	893	59	921	24	49
12	780	35	834	59	945	25	48
13	745	34	775	59	970	25	47
14	711	35	716	59	995	24	46
15	676	34	657	59	27019	25	45
16	642	34	598	59	044	25	44
17	608	35	539	59	069	24	43
18	573	34	480	59	093	25	42
19	539	34	421	59	118	25	41
20	505	34	362	59	143	24	40
21	471	35	303	59	167	25	39
22	436	34	244	59	192	25	38
23	402	34	185	59	217	24	37
24	368	34	126	58	241	25	36
25	334	34	068	59	266	25	35
26	300	35	009	59	291	25	34
27	265	34	15950	59	316	25	33
28	231	34	891	59	341	24	32
29	197	34	832	59	365	25	31
30	163		773		390		30
							Min.

Antilog. 139. Log. 49 Gr.

Gr. 40. Log. 130. Antilog.							
Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith	Diff	
30	43163		15773		27390		30
31	129	34	714	59	415	25	29
32	095	34	655	59	440	25	28
33	061	34	596	59	465	25	27
34	027	34	537	59	490	25	26
35	42993	34	479	58	515	25	25
36	959	34	420	59	540	25	24
37	925	34	361	59	565	25	23
38	891	34	302	59	590	25	22
39	858	33	243	59	614	24	21
40	824	34	184	59	639	25	20
41	790	34	125	59	664	25	19
42	756	34	067	58	689	25	18
43	722	34	008	59	714	25	17
44	688	34	14949	59	740	26	16
45	655	33	890	59	765	25	15
46	621	34	831	59	790	25	14
47	587	34	772	59	815	25	13
48	553	34	714	58	840	25	12
49	520	33	655	59	865	25	11
50	486	34	596	59	890	25	10
51	452	34	537	59	915	25	9
52	419	33	478	59	940	25	8
53	385	34	420	58	966	26	7
54	352	33	361	59	991	25	6
55	318	33	302	59	28016	25	5
56	284	34	243	59	041	25	4
57	251	33	185	58	066	25	3
58	217	34	126	59	092	26	2
59	184	33	067	59	117	25	1
60	150	34	008	59	142	26	0
							Min
					Antilog. 139 Log 49 Gr.		

Gr. 41. Log. 131. Antilog.

Min	Logarithmi	differ.	Mesologar. +	differ.	Logarith	Diff	
0	42150		14008		28142		60
1	117	33	13949	59	168	26	59
2	084	33	891	58	193	25	58
3	050	34	832	59	218	25	57
4	017	33	773	59	243	25	56
5	41983	34	714	59	269	26	55
6	950	33	656	58	294	25	54
7	917	33	597	59	320	26	53
8	883	34	538	59	345	25	52
9	850	33	480	58	370	25	51
10	817	33	421	59	396	26	50
11	784	33	362	59	421	25	49
12	750	34	304	58	447	26	48
13	717	33	245	59	472	25	47
14	684	33	186	59	498	26	46
15	651	33	128	58	523	25	45
16	618	33	069	59	549	26	44
17	584	34	010	59	574	25	43
18	551	33	12951	59	600	26	42
19	518	33	893	58	625	25	41
20	485	33	834	59	651	26	40
21	452	33	776	58	677	26	39
22	419	33	717	59	702	25	38
23	386	33	658	59	728	26	37
24	353	33	600	58	753	25	36
25	320	33	541	59	779	26	35
26	287	33	482	59	805	26	34
27	254	33	424	58	830	25	33
28	221	33	365	59	856	26	32
29	188	33	306	59	882	26	31
30	155	33	248	58	908	26	30

Min.

Antilog.138. Log.48.Gr.

Gr. 41. Log. 131. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
30	41155	33	12248	59	28908	25	30
31	122	32	189	58	933	26	29
32	090	33	131	59	959	26	28
33	057	33	072	59	985	26	27
34	024	33	013	58	29011	25	26
35	40991	33	11955	59	036	26	25
36	958	32	896	58	062	26	24
37	926	33	838	59	088	26	23
38	893	33	779	59	114	26	22
39	860	32	720	58	140	26	21
40	828	33	662	59	166	26	20
41	795	33	603	58	192	25	19
42	762	32	545	59	217	26	18
43	730	33	486	58	243	26	17
44	697	33	428	59	269	26	16
45	664	32	369	59	295	26	15
46	632	33	310	58	321	26	14
47	599	32	252	59	347	26	13
48	567	33	193	58	373	26	12
49	534	32	135	59	399	26	11
50	502	33	076	58	425	26	10
51	469	32	018	59	451	26	9
52	437	33	10959	58	477	26	8
53	404	32	901	59	503	27	7
54	372	33	842	58	530	26	6
55	339	32	784	59	556	26	5
56	307	32	725	58	582	26	4
57	275	33	667	59	608	26	3
58	242	32	608	58	634	26	2
59	210	32	550	59	660	26	1
60	178		491		686		0
							Min

Antilog. 138. Log 48 Gr.

Gr.42.Log. 132.Antilog.

Min	Logarithmi	Differ.	Meslogar. +	Differ.	Logarith	Diff.	
0	40178	33	10491	58	29686	27	60
1	145	32	433	59	713	26	59
2	113	32	374	58	739	26	58
3	081	32	316	59	765	26	57
4	049	33	257	58	791	27	56
5	016	32	199	59	818	26	55
6	39984	32	140	58	844	26	54
7	952	32	082	59	870	26	53
8	920	32	023	58	896	27	52
9	888	33	9965	59	923	26	51
10	855	32	906	58	949	26	50
11	823	32	848	59	975	27	49
12	791	32	789	58	30002	26	48
13	759	32	731	58	028	27	47
14	727	32	673	59	055	26	46
15	695	32	614	58	081	26	45
16	663	32	556	59	107	27	44
17	631	32	497	58	134	26	43
18	599	32	439	59	160	27	42
19	567	32	380	58	187	26	41
20	535	32	322	59	213	27	40
21	503	32	263	58	240	26	39
22	471	31	205	58	266	27	38
23	440	32	147	59	293	26	37
24	408	32	088	58	319	27	36
25	376	32	030	59	346	27	35
26	344	32	8971	58	373	26	34
27	312	32	913	58	399	27	33
28	280	31	855	59	426	26	32
29	249	32	796	58	452	27	31
30	217		738		479		30
							M.

Antilog. 137. Log. 47 Gr.

Gr. 42. Log. 132. Antilog.

Min.	Logarithmi	Differ.	Antilogar. +	Differ.	Logarith.	Diff.	
30	39217	32	8738	59	30479	27	30
31	185	32	679	58	506	26	29
32	153	31	621	58	532	27	28
33	122	32	563	59	559	27	27
34	090	32	504	58	586	27	26
35	058	31	446	59	613	26	25
36	027	32	387	58	639	27	24
37	38995	32	329	58	666	27	23
38	963	31	271	59	693	27	22
39	932	32	212	58	720	26	21
40	900	31	154	58	746	27	20
41	869	32	096	59	773	27	19
42	837	31	137	58	800	27	18
43	806	32	7979	59	827	27	17
44	774	31	920	58	854	27	16
45	743	32	862	58	881	27	15
46	711	31	804	59	908	26	14
47	680	32	745	58	934	27	13
48	648	31	687	58	961	27	12
49	617	31	629	59	988	27	11
50	586	32	570	58	31015	27	10
51	554	31	512	58	042	27	9
52	523	31	454	59	069	27	8
53	492	32	395	58	096	27	7
54	460	31	337	58	123	27	6
55	429	31	279	59	150	27	5
56	398	32	220	58	177	27	4
57	366	31	162	58	204	28	3
58	335	31	104	59	232	27	2
59	304	31	045	58	259	27	1
60	273		6987		286		0
							Min.

Antilog 137. Log. 47 Gr.

Gr.43. Logar. 133 Antilog.

Min.	Logarithmi	Differ.	Mesologar +	Differ.	Logarith.	Diff.	
0	38273	31	6987	58	31286	27	60
1	242	32	929	59	313	27	59
2	210	31	870	58	340	27	58
3	179	31	812	58	367	27	57
4	148	31	754	59	394	28	56
5	117	31	695	58	422	27	55
6	086	31	637	58	449	27	54
7	055	31	579	59	476	27	53
8	024	31	520	58	503	28	52
9	37993	31	462	58	531	27	51
10	962	31	404	58	558	27	50
11	931	31	346	59	585	27	49
12	900	31	287	58	612	28	48
13	869	31	229	58	640	27	47
14	838	31	171	59	667	27	46
15	807	31	112	58	694	28	45
16	776	31	054	58	722	27	44
17	745	31	5996	58	749	28	43
18	714	31	938	59	777	27	42
19	683	30	879	58	804	27	41
20	653	31	821	58	831	28	40
21	622	31	763	59	859	27	39
22	591	31	704	58	886	28	38
23	560	31	646	58	914	27	37
24	529	30	588	58	941	28	36
25	499	31	530	59	969	27	35
26	468	31	471	58	996	28	34
27	437	31	413	58	32024	28	33
28	406	30	355	58	052	27	32
29	376	31	297	59	079	28	31
30	345		238		107		30
							Mi…

Antilog. 136. Log. 46Gr

Gr. 43. Log. 133. Antilog.

Min.	Logarithmi	Differ.	Mesologar. +	Differ.	Logarith.	Diff.	
30	37345	31	5238	58	32107	27	30
31	314	30	180	58	134	28	29
32	284	31	122	58	162	28	28
33	253	30	064	59	190	27	27
34	223	31	005	58	217	28	26
35	192	31	4947	58	245	28	25
36	161	30	889	58	273	27	24
37	131	31	831	59	300	28	23
38	100	30	772	58	328	28	22
39	070	31	714	58	356	28	21
40	039	30	656	58	384	27	20
41	009	30	598	59	411	28	19
42	36979	31	539	58	439	28	18
43	948	30	481	58	467	28	17
44	918	31	423	58	495	28	16
45	887	30	365	59	523	27	15
46	857	30	306	58	550	28	14
47	827	31	248	58	578	28	13
48	796	30	190	58	606	28	12
49	766	30	132	58	634	28	11
50	736	31	074	59	662	28	10
51	705	30	015	58	690	28	9
52	675	30	3957	58	718	28	8
53	645	30	899	58	746	28	7
54	615	31	841	59	774	28	6
55	584	30	782	58	802	28	5
56	554	30	724	58	830	28	4
57	524	30	666	58	858	28	3
58	494	30	608	58	886	28	2
59	464	31	550	59	914	28	1
60	433		491		942		0
							Min

Antilog. 136. Log 46 Gr.

Gr. 44. Log. 134. Antilog.

Min	Logarithmi	Differ.	Mesologar.	Differ.	Logarithmi	Diff.	
0	36433		3491		32942		60
1	403	30	433	58	970	28	59
2	373	30	375	58	998	28	58
3	343	30	317	58	33026	28	57
4	313	30	259	58	055	29	56
5	283	30	200	59	083	28	55
6	253	30	142	58	111	28	54
7	223	30	084	58	139	28	53
8	193	30	026	58	167	28	52
9	163	30	2967	59	196	29	51
10	133	30	909	58	224	28	50
11	103	30	851	58	252	28	49
12	073	30	793	58	280	28	48
13	043	30	735	58	309	29	47
14	013	30	676	59	337	28	46
15	35984	29	618	58	365	28	45
16	954	30	560	58	394	29	44
17	924	30	502	58	422	28	43
18	894	30	444	58	450	28	42
19	864	30	385	59	479	29	41
20	835	29	327	58	507	28	40
21	805	30	269	58	536	29	39
22	775	30	211	58	564	28	38
23	745	30	153	58	593	29	37
24	716	29	095	58	621	28	36
25	686	30	036	59	650	29	35
26	656	30	1978	58	678	28	34
27	627	29	920	58	707	29	33
28	597	30	862	58	735	28	32
29	567	30	804	58	764	29	31
30	538	29	745	59	792	28	30

Antilog.135. Log.45.G.

Gr. 44. Log. 134 Antilog.

Min.	Logarithmi.	Differ.	Mesologar. +	Differ.	Logarith.	Diff	
30	35538	30	1745	58	33792	29	30
31	508	29	687	58	821	28	29
32	479	30	629	58	849	29	28
33	449	30	571	58	878	29	27
34	419	29	513	58	907	28	26
35	390	30	455	59	935	29	25
36	360	29	396	58	964	29	24
37	331	30	338	58	993	28	23
38	301	29	280	58	34021	29	22
39	272	29	222	58	050	29	21
40	243	30	164	59	079	29	20
41	213	29	105	58	108	28	19
42	184	30	047	58	136	29	18
43	154	29	989	58	165	29	17
44	125	29	931	58	194	29	16
45	096	30	873	59	223	29	15
46	066	29	814	58	252	29	14
47	037	29	756	58	281	28	13
48	008	30	698	58	309	29	12
49	34978	29	640	58	338	29	11
50	949	29	582	58	367	29	10
51	920	29	524	59	396	29	9
52	891	30	465	58	425	29	8
53	861	29	407	58	454	29	7
54	832	29	349	58	483	29	6
55	803	29	291	58	512	29	5
56	774	29	233	58	541	29	4
57	745	29	175	59	570	29	3
[illegible]	716	30	116	58	599	29	2
[illegible]	686	29	58	58	628	29	1
[illegible]	[illegible]		0		657		0

Min

Antilog. 135. Log 45 Gr.

Absoluto Canone Logarithmorum & Mesologarithmorum, qui ad 1. Sectionem nostræ Pædiæ Astronomicæ continuatæ spectat, restant adhuc duæ Sectiones, Eclipsigraphiam Luminarium & Historiam Dierum criticorum complectentes. De quibus nunc in reliquis pagellis agetur.

SECTIO-

SECTIONIS II. DE ECLIPSIGRAPHIA.

CAPUT I.

De Eclipsibus in genere, cum plerisq; quæ ad earum Theoriam & caussas spectant.

COmune & insigne utriq; Luminari, tâm Soli quàm Lunæ, est accidens privatio Luminis, Soli in conjunctione cum Luna, Lunæ in oppositione Solis. Hanc passionem Græci ἔκλειψιν, Latini quoque Eclipsim, Deliquium, Defectum, Obscurationem dicunt: Poetæ quoque, nominatim Virgilius, *lib. 2 Georg. v. 478*

Defectus Lunæ varios, Solisq; labores:

& Lucretius, *lib 5. v. 750.*

Solis item quoq; defectus, Lunæq; latebras

canunt. Primùm autem quod Lunæ Eclipsim attinet, cùm Sol sit multo major terra, necesse est, ut demonstrat Vitellio, *lib. 2. Optic. proposit 27* plus medietate à Sole illuminari, & propterea umbrã terræ similem esse cono seu turbini, cujus vertex à superficie viæ Regiæ ☉ seu Eclipticæ nũquam recedit, semperq; est Soli oppositus, cùm terra sit in centro Eclipticæ, tanquam in centro totius mundi. Quando igitur fit Plenilunium, Sol ac Luna exsistunt in gradibus per diametr. oppositis, Luna verò non semper est sub Ecliptica, nisi quando fuerit in ☊ vel ☋. Quamobrem tunc Luna hoc extraordinarium Luminis damnum incurrit, quando Nodi, h. e. ☊ & ☋, orbitam Lunæ cum orbita Solis connectunt: tunc enim Sol, terra, & Luna, sunt in eadem linea recta, & Terra est interposita inter Luminaria, ita ut Luna stet in plaga in quam umbra Terræ vergit. Hinc Eclipsis Lunæ, à Philosopho, *lib. 8. Metaphysic. cap. 6.* rectè definitur, quod sit στέρησις τοῦ φωτὸς ἐν σελήνῃ ὑπὸ τῆς γῆς ἐν μέσῳ γιγνομένης: h. e. *privatio luminis in Luna orta à diametrali Terræ inter Solem & Lunam oppositione.* De hac etiam agunt Macrob. *in lib. 1. Somn. Scipion. cap.* 14. Cicero, *lib. 2. de divinatione,* Laertius, *lib. 7. in*

Zenone, Damascenus, *de fide orthodox. lib. 2. cap. 7.* Beda, *in elementis Philoso-phiæ, lib. 2.* Lucanus quoque, *lib. 1. Pharsalid.* caussam Eclipsis Lunaris indicat:

---- ---- cornuque coacto
Jam Phœbe toto fratrem cùm redderet orbe,
Terrarum subita percussa expalluit umbra.

Tota igitur Luna in hæmisphærio obscurabitur, quoties lumine plena Soli exactè opponitur in capite vel cauda Draconis: nam tunc tota Luna in longiorem crassioremq; Terræ umbram immergitur: quippe cum Luna alieno, id est Solis lumine, luceat, idcirco interpositus globi terren. Solis radios intercipiens sua umbra & densitate prohibet, ne in corpus Lunare transmitti queant. Particulam a. Lunæ saltem obtenebrari necesse est, quando illa quidem in plenilunio prope caput vel caudam Draconis inventa fuerit, distantia tamen Lunæ ab Ecliptica quæ & Latitudo vera ☽ seu arcus Latitudinis ☽ dicitur, semper minor est aggregato semidiametrorum umbræ & Lunæ, & major semidiametro umbræ per se sumto: ita enim umbra terræ aliquam duntaxat Lunæ partem tegit. At quærat aliquis, cur non quolibet mense Eclipsis Lunæ contingat, cùm tamen quolibet mense oppositio Luminarium fiat? Ad quod Astronomi respondent, quod, cùm non omnis Oppositio locorum Solis & Lunæ sit vera & exacta ipsorum in Ecliptica oppositio, cumq; Luna non perpetuò sub Ecliptica versetur, nisi in partibus anni oppositis, sive in spacio 5. vel 6 mensium, ubi eodem redit & nodis appropinquat; idcircò non Luna, nisi attigerit hanc Solis orbitam, quolibet plenilunio de lumine periclitatur: siquidem illa in multis pleniluniis ad Latitudinem in utraque mundi latera versus Septentrionem atq; Meridiem excurrit: hinc quando hæc Latitudo major est, quàm summa ex Semidiametris tàm Lunæ quàm umbræ confecta, semper est extra periculum amissionis Luminis sui: qua de re paulò post pluribus agetur.

Porrò quando Luna in interlunio cum Sole conjuncta fuerit, extiteritque vel in capite vel cauda Draconis, vel intra metas Eclipsis, tunc ea collocata intra Solem & visum nostrum sua soliditate & densitate radios Solis spargi, & in nonnullas terræ partes pertingere prohibet. Tunc hæc exclusio vel aversio radiorum Solis veram & naturalem ejus defectum inducit, vel totalem vel partialem. Unde definitur Eclipsis Solaris, *quod [illegible] interceptio Luminis Solaris profecta ex interpositu Lunæ inter Solem atq; aspectum nostrum.* Hinc Suidas in ἐκλείψεως rectè scribit: ἡ τοῦ ἡλίου ἔκλειψις ἐπιπρ[illegible]
μου

μένου ὑπὸ τῆς σελήνης γίνεται: hoc est: *Solis Eclipsis fit, quando Luna in ipsum incurrit.*

Itaq; magnum discrimen est inter Eclipsin Solis & Lunæ: Nam Elipsis Lunæ universalis est in toto hæmisphærio, ubi Luna videri potest, nec Sol præsens est: Solis verò Eclipsis nequaquam universalis est: sed potest esse Eclipsis Solis in uno Climate, in alio verò non; imò in uno major, & in altero minor: quia Eclipsis Solis dependet à parallaxi Latitudinis Lunæ, quæ diversa est in diversis climatibus: sicut postea id à nobis ostendetur: In Lunari verò Eclipsi hæc non attenditur; etenim ea in omni climate semper est sibi similis. Quemadmodum autem Eclipsis Lunæ non fit in quolibet plenilunio, ita nec Solis defectus in omni interlunio contingit; sed tunc saltem, quando nodo est proximum, quod fit omnibus ferè semestribus, & intra spacium unius anni Luna in plenilunio, Sol in novilunio deficere potest, sed defectu minimo. Fieri etiam potest, ut duo interlunia nodis proxima, & ferè centralia, unius semestris intervallo accidãt: unum quidem ante Solis Apogæum; alterum post illud: quo casu intra totum Annum Lunarem nullum cõtinget plenilunium Eclipticum. Sic & omne plenilunium Eclipticum nodis non proximè vicinum sequitur proximum interlunium Eclipticum. Deniq; omnibus propè annis Lunaribus simplicibus (quarum Longitudo 354 diebus circumscribitur) vel duæ, vel etiam tres Solis Eclipses; Lunæ verò vel nulla, vel una, vel duæ contingunt, & sic in universum vel duæ, vel tres, vel quinq; Eclipses. Interdum etiam potest accedere sexta in anno Solari, qui constat 365. diebus, quando scilicet Eclipses initio anni ingruunt. Reditus quoq; ad sua principia in Eclipsibus Lunaribus evidens est, & agnoscit periodum annorum 18. Lunarium completorum, ita ut ad unum Cyclum ☽ sit residuus verus annus Lunaris simplex, quippe post revolutionem tot annorum fit, ut non multùm diversæ redeant & conspiciantur Eclipses Lunæ, decem tamen Zodiaci gradibus loco anteriori. In Eclipsibus verò Solaribus, ob multa principia dissona nec concurrentia, non potest iniri ulla exacta annorum redeuntium revolutio. Interdum quidem fit, ut duo Solis defectus satis præcisè enneadecaëterida, hoc est, cyclum decennovennalem impleant, ut factum anno Christi an. 1579. & 1598. ubi die 25. Februarii utrobique magna Solis Eclipsis fuit. At talis reditus in simili annorum periodo, ob interventum aliarum caussarum, non expectandus erit.

Antequam autem Philosophi longa experientia & rationibus caus-

 sam de-

ſam defectuum Luminarium didiciſſent, docuiſſent, & prædixiſſent, imperita multitudo utplurimum obſcurationibus præſtantiſſimorum Solis & Lunæ ſiderum conturbata fuit, præſertim gentiles, qui exiſtimarunt, ob Deorum iram hujuſmodi Eclipſes accidere, vel crediderunt, veneficas & ſagas magicis artibus & incantationibus Lunam cœlo deducere & Solis curſum inhibere: quo diverſi Poëtæ reſpiciunt. Virgilius, *Eclog. 8. v. 96.*

Carmina vel cœlo poſſunt deducere Lunam.

Propertius, *lib. 1. ad Tullum*:

At vos deductæ quibus eſt fallacia Lunæ, &c.

Et maga quædam apud Petron. Arbitrum Satyricum *pag. 887.* ita can..

--- --- --- Lunæ deſcendit imago

Carminibus deducta meis.

Plura loca parallela ex variis Poëtis adducta, vide apud Jo de la Cerda, ... *verſic. 69, Eclog. 8. Bucol. Virgilii*: & Paul. Merulam, *parte 1. lib. 2. cap. 27. Coſm*

Quoties igitur Luna ex naturalibus cauſſis deficiebat, inſenſati pagani, exiſtimantes eam languore diſſolvi, & triſtia ſuo luctu portendere pulſabant æra, quod antidotum habuerunt contra artes ſagarum, atq; ... diſſono aëris crepitu inanibuſq; vociferationibus Lunæ laboranti vo... bant ſubvenire, ejuſq; lumen revocare; ut videre eſt ap. Plutarch. *in Paul. Æmil. pag. m. 264.* & in tertia, *pag. 538.* ap. Livium *lib 26 & 44.* Plinium, ... *2. cap. 12.* Unde & multi Patres horum paganor. perverſam conſuetudi... reprehenderunt. Hinc Auguſtin. *lib. 3. de civit. Dei, cap. 15* hunc morem ... guit. Et autor, *de rectitudine Catholicæ converſationis*, apud eundem Auguſt... *tomo 9 pag. m. 384. lit. C.* ita ſcribit: *nullus, quando Luna obſcuratur, vociſe... præſumat. quia certis temporibus, Deo jubente, obſcuratur.* & Burchardus Wor... mat. Epiſcopus, *lib. 10. Decretal cap. 33.* & *lib. 19. de pœnitentia*, illis, qui ho... crepitus & immanes vociferationes exercent, duorum annorum pœni... tentiam impoſuit. Ita ſæpe ignoratio cauſſæ Eclipſium, vulgus homin... vel in ſuperſtitiones, vel etiam in pericula præcipitavit. Certè cauſſa ... gentis cladis in exercitu Athenienſium ad portum Syracuſanum fuit ... gnoratio cauſſæ defectus Lunæ, ut annotavit Diodorus Siculus, *lib 13. ... Bibliotheca, ſect. 12.* & cum Romani Duce Paulo Æmilio adverſus Per... cum Regem præliaturi eſſent, Sulpitius Galba prænunciato Lunæ de... liquio metu exercitum liberavit: verùm Macedones metu & horro... correpti, ſermoneque palam per multos ſparſo, caſum Regis eo portent... to oſtendi, ſuperati fuerunt à P. Æmilio, qua de re videatur Plutarch...

& Pli...

& Plinius, locis dictis, nec non Valer. Maximus, *lib. 8. cap. 11.* ut & Florus, *lib. 2. cap. 12.* Sed ut omissis antiquis id tantùm attingamus, quod superiore seculo accidit, & quod ex Indicarum navigationum scriptoribus recitant Leonhardus Coquæus, *in Comm. lib. 3. Augustini, de civit. Dei cap. 10. num. 3.* & Schröterus, *tomo altero histor. Geographic. pag. 523.* aliiq; complures; cùm Christophorus Columbus, in sua quarta & ultima in Indiam navigatione, auspiciis Ferdinandi Castiliæ Regis suscepta, ad Cubam sive Jamaicam Insulam in magna pericula apud Indos incidisset, in quæ eum defectiones aliorum nautarum conjecerant, eosq; irritatos non placare posset, prædixit Lunam sibi amicam intra biduum lumine privatum iri, eò quod incolæ jura hospitii violassent; cumq; eventus huic præsagio respondisset, barbari caussæ defectionis Lunæ ignari, ea ita territi sunt, ut cum Columbo non solùm in gratiam redierint, sed & jussa ejus fecerint, eumq; muneribus cumulatum cum pace dimiserint. Accidit autem hæc Eclipsis ☽, ut colligo ex tempore navigationis, anno Christi 1505. 1505
die 18. Februarii, feria 3. in $9\frac{1}{2}$ gr. ♓ & ♍ paulò post meridiem respectu nostri usualis temporis, quo tempore incolæ Cubæ Insulæ ferè mediam habuerunt noctem: siquidem illi per 11 horas & $\frac{1}{4}$. meridiano Uraniburgico sunt Orientaliores. Tu Astrophile, ex hisce Tabb. Ecclipsium hanc Eclipsin ad præfatum tempus supputare, atq; Longitudini loci 205 grad. respectu Uraniburgi, Latitudini verò Septentrionali 22 gr. accommodare non gravare: habes hîc in promptu apparatum Tabularum & præceptorum, ex quo rem ita sese habere certiùs cognosces.

Sciendum etiam hîc est, quod naturales ☉ Eclipses, diurnarum illarum ac prodigiosarum tenebrarum, quarũ exempla in historiis nonnunquã occurrunt, sint dissimiles: Hujusmodi enim tenebræ præter naturæ ordinem fiunt. Scribitur *Exodi c. 10.* quod in Ægypto sub Pharaone tenebris terra obscurata fuerit: Quippe hæ ad justam Dei iram meritò referuntur. Talis prodigiosa Eclipsis ☉ etiam accidit tempore passionis Christi, de qua apud Matthæum, cap. XXVII. 45. Marc. c. XV. 33. qui testantur, eam, pendente ab arbore crucis Christo, per trihorium durasse, Solemq; suam lucem amisisse: Nam eo tempore (sicut calculus Astronomicus, & retrò computata motuum cœlestium ratio docent) plenilunium fuit, unde natura in sui domini & creatoris morte, hanc pullam & atratam vestem super univer̃sam terram voluit induere, ut suum dolorem contestaretur. Harum prodigiosarum tenebrarum originem Kepplerus,

lib. 6. Epitom. Astron. pag 896. tres causas revocat. Prima est nobis proxima, quæ ad peculiaria terræ loca saltem restringenda est, & est densitas nubium ac nimborum, quæ copiosam nivem fundendo sæpe caliginem inducit. Interdum etiam sunt nubes avium aut cicadarum vel locustarum. Sic in vita Caroli IV. narratur, quod anno Christi 1329. magnus proventus locustarum in Bohemia exstiterit, ita ut præ copia aerem obscuraverint, adeo ut Sol videri non potuerit: Quando enim volârunt, densas quasi induxerunt nubes. Wolfius etiam *in centur 16. hist. memorabil.* narrat ex nonnullis historicis, quod anno 1545 in plurimis Europæ provinciis ingens locustarum multitudo subitò excita fuerit, quæ tàm denso agmine provolavit, ut Solis quoq; splendorem ab illis locis, quæ occuparunt, excluserint. Nubium quoq; densitatem radios Solis intercipere, & tenebras diei inferre posse experientia testatur. Anno proximo Christi 1633 mense Novembri, ita caliginosum per aliquot dies exstitit cælum, ut in Hollandia equi currum trahentes de die, præ obscuritate in vicinum littus maris inciderint, seq; ac vectores in præsens vitæ periculum conjecerint.

Altera causa est è terris proficiscens, ingens cinerum ex crateribus montium ardentium explosa quantitas: Quæ caussa plerumq; cum terræ motu, aut imbre lapidum, est complicata. Sic *fasti Siculi pag. 623.* referunt, quod anno Christi 223. ex tali caussa trium dierum tenebræ extiterint, & terræ motus ingens factus sit. Idem & accidit anno Christi 472 ubi Vesuvius mons intimis æstuans ignibus, exustam terram evomuit, & totam fere Europam tenebris ac minuto cinere operuit, si credimus Cedreno, pag. 289. Victori, atque Marcello, *in Chronicis* eorum Eusebio Jos. Scaligeri annexis, *pag. 3. & 32.* Ejusmodi Solis obscurationem à cineribus factam describunt etiam Dion Cassius *lib. 66.* Plinius, *lib. 3. Epistol. 5. & lib. 6. Epist. 16.* Svetonius, *in Tito, sect 8.* Aurelius Victor, *lib. 4.* Plutarchus, *in libello, de his qui serò à Deo puniuntur, pag. 566. lit. D.* Cedrenus, *in synopsi historiarum, num. 94.* Paulus Orosius, *lib 7. cap. 9.* Baronius, *ad annum Christi* 81 §. 3. *ad 5. usq.* Tale quid etiam anno Christi 1562 in Lusitania contigisse scribit Cornelius Gemma. Quandoq; hæc cum prima concurrere potest, præsertim sævientibus ventorum procellis, quæ aërem crassa & terrea quadam materia opplere, tenebrasq; inducere queunt.

Tertia caussa materia est fuliginosa ipsam Solis sedem obsidens & ejus radios obtundens, ita ut toti mundo Solem obfuscet. Talis pallor & languor

languor Solis haut dubiè fuit, qui circa cædem Julii Cæſaris accidit, & per complures dies duravit, de quo ita Plinius, *lib. 2. cap. 30.* ſcribit. Fiunt prodigioſi & longiores Solis defectus, qualis occiſo Dictatore Cæſare & Antoniano bello, totius pæne anni pallore continuo. Hujus etiam meminerunt Plutarchus, *in vita Jul. Cæſaris, pag. 741. lit. A.*

Virgilius, *lib. 1. Georgic.* inquiens:

Sed tibi ſigna dabit, Solem quis dicere falſum
Audeat? &c.

Ovidius, *lib. 15. metamorph. --Solis quoq; triſtis imago*
Lurida ſollicitis præbebat lumina terris.

Tibullus, *lib. 2. eleg. 5*

Ipſum etiam Solem defectum lumine vidit,
Jungere pallentes nubilus annus equos.

Nullam tamen Solis Eclipſim, qualem Servius Virgilii interpres, & alii nonnulli Scriptores opinantur, & ipſe Hervvartus ab Hohenburg, *cap. 145. ſuæ Chronologiæ, pag. 60,* anxiè quæſivit, accidiſſe teſtatur calculus Aſtronomicus. Cedrenus quoq;, *ſynopſi hiſtoriæ, num. 180. & hiſtoria miſcella, lib 22,* referunt, quod anno Chriſti 746. tenebræ caliginoſæ per aliquot dies extiterint. Annotavit etiam Cedrenus, quod anno ultimo conſtantini, fratris Leonis IV. Sol per ſeptendecim dies obſcuratus fuerit, nullos emittens radios, unde tantæ tenebræ ortæ fuerunt, ut naves quoque à curſu ſuo aberaverint. Sleidanus etiam, *lib. 19* narrat, ut & alii, quod anno Chriſti 1547. ſub menſe Aprili, quatriduo Sol triſtis & obſcurus per totam Germaniam, [& ut non nulli volunt, per Europam, & latius] apparuerit, ubi Joh. Fridericus Elector Saxoniæ à Carolo V. Imper. captus fuit Hanc cauſſam latè perſequitur Kepplerus, *in Opticis paralipomenis ad Vitellionem pag. 290. & lib. Epitom. Aſtron. pag. 56 & ſeqq.*

Ad prodigioſos hujusmodi Solis defectus videntur referenda eſſe non pauca Scripturæ loca, quibus tales cœleſtium corporum facies & quaſi mœrores ad vivum deſcribuntur, ut videre eſt apud Eſaiam, *cap. XIII 10* Ezechiel. *cap. XXXIII. 7. 8.* Joelem, *cap. II. 10, cap. III. 15.* & alibi.

At de talibus extraordinariis Solis tenebris hîc non agimus, ſed tantùm de naturalibus Solis Eclipſibus, quæ nullo alio tempore, niſi interlunii, ut & Eclipſibus Lunæ, quæ tempore plenilunii viſuntur agimus. Quicunq; igitur haſce naturales Solis Eclipſes, vel præteritas vel futuras,

 noſſe,

nosse, ostendere, & prænunciare desiderat; iste hìc habet compendium, modumq́; eas ex veris Astronomiæ fundamentis, observationibus Tychonicis superstructis, supputandi. Sethus quidem Calvisius, *in sua Isagoge Chronologica*, aliquam compendiosam formam Eclipses Luminarium ad calculos Astronomicos revocandi ostendit: Verùm cùm Tychonis tabulas in libro I. progymnasm suorum publicatas, quatuor saltem seculis deservientes, omnibus voluerit accomodare, in exacta temporis eclipsium designatione nonnihil hallucinatus est, præsertim in iis Eclipsibus, quæ superioribus millenariis acciderunt. Quamobrem ipse quidem hanc formam, ut optimam & expeditissimam, retinui, at restitut. motibus Luminarium Christiani Severini Longomontani, Nobilissimi Tychonis adjutoris, accommodavi, ita ut jam Tabulæ istæ in hac forma omnibus retrò seculis & futuris tutò applicari queant. Qualem verò calculus Eclipsium utilitatem præbeat, paulò antè nonnihil ostensum fuit, ipsarumq́ue scientia est unum adminiculum inquirendi locorum Longitudines, seu differentias Meridianorum, & perveniendi per Lunam, quasi per primam scalam, in magnum Planetarum & fixarum orbem, eorumq́; Altitudines à terra investigandi: Imò quantum usum Eclipses in Hydrographia, re nautica, & Geographia præstent, vix verbis satis exprimi potest. Itaq; quicunq; Philosophiæ Studiosus ad veritatem motus cœlestis Luminarium & reliquorum Planetarum vult pervenire, eamq́; infallibiliter probare, is se in Eclipsigraphia exerceat, ut tanquam per horridos Luminarium labores non saltem ad reliqua sidera, verùm etiam siderum Creatorem, ipsum Deum Opt. max. penetrare, eumq́ue etiam ex libro Naturæ cognoscere possit. Magna quidem hactenus difficultas, quæ sese circa rationem supputandi Eclipses, inprimis Solares, exseruit, multa ingenia deterrere potuit; At hìc plana & expedita ostenditur via, quam qui ingreditur facilè omnem rationem supputandi defectus utriusq́; Luminaris apprehendet. Conjungam autem modum supputandi Eclipses Lunares cum Solaribus, & sicubi diversitas occurrerit, breviter & luculenter ostendam.

CAPUT

CAPUT II.

De Ratione explorandi medium & verum tempus Conjunctionis & Oppositionis Luminarium, cum intervallo inter veram ac mediam Syzygiam, nec non modo indagandi verum locum Luminarium, & coæquatum motum Latitudinis ☽ ad tempus veræ Syzygiæ.

CUm Eclipses sint præstantissimus Thesaurus, non solùm in Astronomia, sed & Geographia, ad inquirendas ac discernendas locorum Longitudines, ut & in Chronologia, in qua indubitatos temporum characteres, à quibus infallibile eorum examen dependet, suppeditent: Iccirco nemo hoc ἄχανες ac vastum harum disciplinarum mare pernavigabit, nisi hac quasi Cynosura ac acu Magnetica instructus fuerit. Quocirca & nos hoc Ariadneum filum sequamur, ubi supponitur tempus medium & verum, nec non exactus locus Luminarium. Et quia Nobilissimus Tycho Brahe, priscorum seculorum observationes Eclipticas cum suis contulit, atq; etiam scientissimus Astronomiæ Magister Christianus S. Longomontanus, Tychonis συντεχνίτης, motum Luminarium ad omnia secula phænomenon Cælestium & Eclipsium observationibus accommodavit, & Dn Joh. Kepplerus, in hac quoq; palæstra egregiè subactus, nonnulla in Eclipsigraphia limitavit, adeo ut major præcisio vix sperari posse videatur: ideoq; harum vestigia audacter pressimus, & nostras Tabulas in compendium redactas, ad Canones horum artificum direximus & correximus, in quibus ad conquirendum tempus medium ac verum Syzygiarum Luminarium ita Astrophile feliciter versari poteris.

Ex prima Syzygiarum Luminarium Tabula sub lit A depromis tempus medium Novilunii, in annis completis, collectis & expansis, currentibus residuisq;, quod Festo Paschatis proximum est: Ubi primus numerus diem à Calendis Jan. in Calendario Juliano, sub lit. B. numeratum, secundus feriam, tertius horam à media nocte diei incipientem, cum horarum segmentis in minutis atq; secundis; quartus Cyclū ☉ qui in Tabula sub

lit. r. literam Dominicalem istius anni simul exhibet; quintus Cyclum ☽, qui terminum paschalem in Tabella A. docet, ostendit, quando scilicet anni expansi currentes superiùs, collecti verò inferiùs collocantur, hiq; ab illis subtrahuntur: sic enim relinquitur dies, feria, horarium tempus, Cyclus ☉ ac ☽, in quæ tempus medium interlunii Paschalis incidat. Si jam reliquorum quoq; mensium, novi- & plenilunia excerpere vis, necesse est, ut ex *Tabella A* tot dies & horas pro numero noviluniorum vel pleniluniorum, medio tempori Paschalis interlunii adjicias, quot novilunia & plenilunia in *Tabula A* ostenderint: Ita enim tempus medium desiderati novi- & plenilunii exactè in diebus, horis, & horarum minutis obtinebis Deinde ad idem tempus collige anomaliam Solis ex *Tabula* in annis expansis & collectis, atq; in numero dato noviluniorum ac pleniluniorum, in sexagenis, gradibus, minutis atq; secundis, ubi una sexagena duo efficit signa. Hosce autem numeros ordine sequentes contrario modo in unam conjicis summam, secundum additionem Logisticam: non autem subtrahis unum ab altero, sicut in Syzygiis fecisti. Postea etiam ad idem tempus *ex Tabula Anomaliæ ☽ris sub lit. H.* anomaliam Lunæ eruis, ut constet æqualis motus anomaliæ Solis ac Lunæ ad tempus Syzygiæ. Dehinc cum anomalia ☉ ac ☽ ex competentibus *Tabulis sub lit.* I. *&* K. æquationes Luminarium elice, ex quibus cognosces, utrum media ☌ vel ☍ veram, an verò Syzygia vera mediam præcedat? Nam utraq; prosthaphæresis seu Æquatio, tam ☉ quàm ☽æ, ejusdem speciei & denominationis, atq; [quod tamen raró fit] æqualis fuerit, tempus mediæ & veræ ☌ & ☍ in idem momentum incidit. Sin verò inæqualis, & Æquatio, quæ titulum Subtractionis habet, fuerit Solaris, tunc vera Syzygia præcedit mediam: Si verò Lunaris sit ablativa, tunc vera Syzygia sequitur mediam. Sed enim si ambæ Æquationes titulum subtractionis præ se tulerint, tunc respiciendum est ad majorem numerum Subtractionis & secundùm hunc, in ☉ vel ☽, pronunciandum. Si tandem ambæ Æquationes adjectivæ extiterint, tunc ea æquatio Luminaris subtractionis notam habet, quæ minor est numero, & secundum hanc, quasi ablativa esset, de tempore Syzygiæ pronunciandum. Deinde consule *Tab. Æquationis motus Lunaris ad anomaliam, sub lit. K* & motum inde horarium ☽ excerpe in minutis atq; secundis, quem seorsim asserva. Insuper etiam quando tituli Æquationum Luminarium diversi sunt, unus ablativus alter adjectivus, tunc utramq; Æquationem aggrega: Sin verò tituli Æquationem ☉ ac ☽æ ejusdem denominationis fuerint, tunc minorem a

majore

majore ſubtrahe, & hanc ſummam vel differentiam Æquationum per motum horarium Lunæ divide, ſic enim inter mediam & veram Syzygiam intervallum quam proximè proſiliet, quod nunquam horas quatuordecim excedit. Quod ſi hoc intervallum rectè aſſecutus fueris, tunc Longitudo ☽ à ☉ ad hoc intervallum ſumta cum ſumma vel differentia æquationis Luminarium planè eadem erit & coincidet; ſi verò hæc ab illa paululum diverſa erit, indicio eſt, in argumento nonnihil aberratum. Quamobrem conſidera, utrum Longitudo ☽ à ☉ minor ſit, quàm Æquationis Luminarium ſumma differentiáve, an vero Longitudo eadem major ſit: Adhæc inquire motum ☽ horarium verum ad anomaliam ☽æ primùm, poſt ad anomaliam Solis, juxta titulos aſſcriptos: Quo motu ☽æ correcto impetrato, habe eum loco diviſoris, & differentiam inter Longitudinem ☽ à ☉, & inter ſummam differentiámve Luminarium loco dividendi, quotus eſt tempus in priore caſu, ſi ſcilicet Longitudo ☽æ à ☉ minor eſt intervallo, addendum: in poſteriore verò caſu, nempe ſi Longitudo ☽æ à ☉ major erit, ſubtrahendum: ſic enim impetrabis intervallum exactiſſimum inter veram & mediam ☌ vel ☍ Luminarium, ubi & Longitudo ☽æ à ☉ ſummæ differentiæve Luminarium ſatis præciſè reſpondebit. Aſſervetur autem hic motus horarius ☽æ: Quia ille eſt verus motus horarius, qui poſtmodum in Eclipſibus Solaribus etiam requiritur ad indagandum tempus viſibilis ☌ ☉ ☽, ſicut poſtea ſequetur.

Ad hoc tempus veræ ☌ vel ☍ Luminarium excerpatur Anomalia Æquinoctiorum, Motus Longitudinis ☉, & Motus Latitudinis ☽, quo ſpectant *Tabula ſub* A E *&* Θ: per anomaliam Æquinoctiorum ex *Tabula* M eruatur Æquatio Æquinoctiorum, juxta monitum literarum vel addenda, vel adimenda medio motui ☉, ut prodeat ſimplex Longitudo ☉ à vero Æquinoctio: Quin & per competentem Anomaliam Solis ex *Tabula* I, Æquatio Solis excerpatur, quæ itidem juxta indicationem ſubtractionis vel additionis addatur ſimplici motui Longitudinis Solis, vel ab eodem ſubtrahatur, ad obtinendam veram Longitudinem ☉ in Zodiaco. Lunæ quoq; Longitudo eodem modo comparatur; aſſumtæ enim ſimplici Longitudini Solis à vero Æquinoctio [abjectis 6 Signis circa pleniluniũ] addantur Longitudo ☽ à ☉, & Æquatio Epicyclica ☽: Ita enim Lunæ locus, in gradibus graduumq; ſectionibus, vel idem evadet cum Solis loco, vel eidem præciſè in plenilunio erit oppoſitus, ita ut in neutro Luminarium

rium ultra scrupulum secundum nunquam aberratum sit. Deniq; si Latitudini ☽æ ad tempus veræ Syzygiæ Æquatio Epicyclica Lunæ eodem modo ut Longitudini Lunæ ad præscriptum signum additionis vel subtractionis applicata fuerit, existet coæquatus motus Latitudinis, quo deinceps ad eruendam veram Latitudinem Lunæ opus est, & eo usque reservandus.

Ut autem hæc præcepta sufficientibus exemplis illustrentur, constitui tribus Lunaribus tribusq; Solaribus defectionibus ea dilucidare. Præmitto autem Lunares Eclipses, tanquam investigatu faciliores, quibus Solares, ob parallaxium Longitudinis & Latitudinis Lunæ tempore visibilis ♂ difficiliores, subjungam.

Primum igitur exemplum sit Eclipsis Lunæ quæ accidit ante victum Perseum à Paulo Æmilio Consule Romano, hora 2. noctis sub æstate ac flagrantissimo æstu, quam & Sulpitius Gallus prædixit, sicut meminerunt Livius, *lib. 44. num. 36.* Plutarchus, *in vita P. Æmilii*, Plinius, *lib. 2. nat. hist. cap.* 12. Florus, *lib 2. cap* 12. Valerius Maximus, *lib 8. cap.* 11. Accommodabimus autem eam Thessalonicensi Meridiano, cui uterq; exercitus proximus fuit, cujusq; Longitudo & Latitudo nostro Catalogo locorum, *part. 1. Pædiæ Astron.* insertæ extant. Accidit autem hæc Eclipsis, ad Calendarium Julianum, anno Mundi 3782. die 21. Junii, fer. 3.

Operatio.

Anni expansi	Dies	fer.	hor.	′	″	Cyclus ☉	Cyclus ☽
58	81	3	~~24~~ 16	38	18	10	5
Collecti	80	2	40				
3724	11.	4.	22	0	57	0	0
10 Martii	69	5	18	37	21	10	5
4 Plenilun.	103	5	8	34	11		
	173	11	27	11	32		
	0	7	24	0	0		
Dies 22 Jun. fer. 4.	173	4	3	11	32		

Anni

Anni expanſi.	Anom. ⊙				Anom. ☽.			
	Sexag.	°	′	″	Sexag.	°	′	″
58	5	26	49	26	0	15	42	45
Collecti 3724	5	12	35	18	0	37	2	28
4 Plenilū.	1	41	52	7	4	30	21	30
	0	21	16	51	5	23	6	43

Æquatio ⊙ ſubtrahenda.
° ′ ″
0 42 34
33
0 43 7

Æquatio ☽ addenda
° ′ ″
2 55 46
28
2 55 18
43 7 Æquat. ⊙ adden.
3 38 25

Motus horarius ☽
′ ″
28 13

	12	14	22
0	20	54	28
3	38	25	
	28	13	
3	17	31	
	41	32	
	12	13	38

′ ″
7. hor. 44 26.
Intervallum proximum inter mediam & veram Syzygiam ſubtrahendum.

Cùm vera Syzygia præcedat mediam, ad hoc intervallum rurſus anomalia ⊙ & ☽ excerpenda, & Æquationes eruendæ, cumq́; Longitudine ☽ à ⊙ conferendæ ſunt, ut pateat, num intervallum hoc præciſè ſit inventum.

	Anom. ⊙			Anom. ☽				Long. ☽ à ⊙			
	′	″	‴	°	′	″	‴	°	′	″	‴
Hor. 7.	17	14		3	48	38		3	33	20	
min. 44.	1	48	25		23	57	9		22	21	
ſec. 26.		1	4			14	9			13	
	19	3		4	12	49		3	55	54	

Anom. ☉
Sex. o / //
o 21 16 51
19 3
o 20 57 48
Æquatio ☉ subtr.
o / //
o 40 37
1 53 P.P.
o 42 30 Æquat. ☉ limit.

Anom. ☽
Sex. o / //
5 23 6 43
4 12 49
5 18 53 54
Æquat. ☽ add.
o / //
3 15 42
3 29 P.P.
3 12 13 Æquat. ☽ limitata.
o 42 30 Æquatio ☉.
3 54 43 Aggregatum Æquationum.

3 55 54 Long. ☽ à ☉
3 54 43 Agg. æquat.
1 11 Diff.
Motus horarius ☽ correctus
/ //
28 19
5
28 24

	14	18	48	/ //
1	11	59	12	2 31
28	24			1
	5 0	0	48	2/ 32// subtrahenda à priore tempore.
	1	10	24	

Anomal. ☽
/ // ////
1 5 19
17 25
1 22 44

Anom. ☽
Sex. o / //
5 18 53 54
1 23
5 18 52 31
Æquatio ☽.
o / //
3 15 42
3 24 P.P.
3 12 18
o 42 30 æq. ☉ lim.
3 54 48
3 54 37
11

Pro Longitudine ☽ à ☉.
/ // ///
1 0 57
16 15
1 17 12

Long. ☽ à ☉ antè inventa.
o / //
3 55 54
1 17
3 54 37
11
3 54 48 Long. ☽ coincidens cũ summa Æquat ☉ & ☽.

11	7
28	34
10	53

//
23 adhæc tempori priori addenda.

Tempus medium veræ ☍ ☉ ☽
Hor. / //
24 11 32
3
27 44 26
7
19 27 6
2 32
19 29 38
23
19 29 15 Tempus à media nocte ad Meridianum Uraniburgicum.

Ergo verum intervallum inter veram & mediam Syzygiam est 7 hor. 42/ 17//.
Anomalia ☽æ correcta 5 sex. 18 gr. 52 min. 43 sec.
Anomalia ☽ coæquata.
Sex. o / //
5 18 52 43
3 12 18
5 22 5 1

Pro

Pro Longitudine ☉.	′	″	‴
7 hor.	17	14	
42′	1	43	29
17″.		0	42
	18	58	11

Pro Latitudine ☽. °	′	″	‴
3	51	31	
	23	9	4
		9	22
4	14	49	26

	Anomal. Æquinoct.				Longitudo ☉.				Latitudo ☽.			
Anni	Sex.	°	′	″	Sex.	°	′	″	Sex.	°	′	″
58	0	7	26	25	5	28	9	13	0	25	25	21
3724	0	12	23	50	0	16	30	13	0	45	6	29
4. Plenil.			1	43	1	41	52	25	4	47	20	49
	0	19	51	58	1	26	31	51	5	57	52	39
	Æquatio Æquinoct.						18	58		4	14	49
	subtr 9/12″.				1	26	12	53	5	53	37	50
							9	12		3	12	18
					1	26	3	41	5	56	50	8
							42	30	Coæquatus motus Latitudinis ☽æ.			
					1	25	21	11				

E. ☉ fuit in 25 gr. 21′ 11″. ♊.

Longitudo ☽æ. Sex.	°	′	″
4	26	3	41
	3	54	48
4	22	8	53
	3	12	18
4	25	21	11

E. ☽ in 25 gr. 21′ 11″ ♐.

Æquatio & Reductio temporis ad meridiem Thessalonicensem.

Horarium tempus à meridie.

H.	′	″
7	29	15
	1	41
7	30	56
	55	
8	25	56

Tempus veræ ☍ Meridiani Thessalonicensis.

Ad hunc modum etiam antiquissimorum Astronomorum observationes Eclipsium Lunarium, quæ apud Ptolomæum, *lib. 4. magnæ composit. cap. 6.* & aliis, extant, factaq; sunt anno Mundi 3229, die 19 Martii, circiter

citer 10 pomeridianam: Anno Mundi 3130 die 8 Martii, feria 6 circiter mediam noctem: Anno Mundi 3567. ab Hipparcho observata, die 23 Decembris: Et anno Mundi 3568. die 18. Junii, fer. 5 & die 12 Decembris, feria 7 ut & Ptolemaicas, quæ contigerunt, inprimis Anno Christi 125, die 5 Aprilis, feria 4. Anno Christi 133 die 6 Maji, feria 3. Anno Christi 134 die 20 Octobris, feria 3. Anno Christi 136. die 6 Martii, feria 2. Quamvis enim aliqua differentia in tempore, & in loco Solis sæpe occurrat; tamen ea non adeo magna est, & provenit ex minùs certis veterum observationibus, qua de re alibi cum bono Deo agetur.

Hujusmodi igitur exempla diligentiæ & industriæ Astrophilorum committimus, & hîc tantùm in defectionibus Lunaribus summa capita duarum Eclipsium subjiciemus. Una est Eclipsis illa Lunaris, cujus calculum etiam tradit Braheus, *lib.* 1. *progymnasm pag.* 129. 131. Hoc igitur plenilunium Eclipticum quoad præcepta hujus capitis ad Meridianum Uraniburgicum ita sese sistit. Media ☍ accidit Anno Christi 1601 die 29 Novembris, feria 1, hora 18. min. 41. sec. 48 à media nocte. Intervallum inter mediam & veram Syzygiam addendum 11/46//. Tempus apparens & æquatum veræ ☍ est 6 horar. à meridie, 57 min. 50 sec. Anomalia Æquinoctiorum, 3 Sexag. 16 gr 41/35//. Æquatio æquinoctior. add. 7/52//. Anomalia ☉ 2 Sexag 42 gr. 41/17//. Anomalia ☽ 2 Sex. 51 gr. 49/15//. Æquatio ☉ subtrahenda 37/50//. Æquatio ☽ subtrahenda, 43/49//. Longitudo ☉ vera 17 gr. 47/33// ♐. Longitudo ☽ vera 17 gr. 47/33// ♊. Anomalia ☽ coæquata 2 Sex. 50 gr. 56/26//. Motus Latitudinis ☽ coæquatus, seu argumentum Latitud. ☽ 2 sexag 54 gr. 0/10//. Qui Epilogismus à Tychonico parum differt, atq; ita à Severino in nonnullis limitatus est, ita tamen ut differentia ferè sit insensibilis. Calculus tertiæ Eclipsis est, quæ accidet anno Christi 1642. cujus summa capita etiam in Ephemeride ad hunc annum posita invenies. Breviter ea sic sese habent. Media ☍ ad meridianum Uraniburgicum ingruet die 4 Aprilis feria 2, hor. 13. min. 4. sec. 14. à media nocte. Intervallum exactum inter mediam veramque ☍ datur 13 horarum, 17 min. 44 sec. addendum, ita ut tempus apparens & æquatum veræ ☍ sit 14 horar 39 min. 25 sec. à meridie. Anomalia Æquinoctiorum est 3 sex 20 gr. 43/40//. Æquatio Æquinoctiorum addenda 9/42//. Longitudo ☉ vera 25 gr 12/0// ♈. Lunæ verò 25 gr. 12/0// ♎. Anomalia ☉ 4 sex. 46 gr. 48/23//. Æquatio ☉ add. 1 gr. 56/17//. Anomalia Lunæ 1 sexag. 41 gr. 34/28//. Æquatio ☽ subtrah. 4 gr.

4 gr. 54/0//. Anomalia Lunæ coæquata 1 ſex. 36 gr. 40/28//. Et deniq; Motus Latitudinis Lunæ coæquatus 0 ſex. 1 gr. 53/44//.

Primum exemplum in Novilunio Ecliptico.

Sumamus hîc primi exempli loco Eclipſin Solis, quæ accidit primo anno belli Peloponneſiaci, & tanta fuit, ut Stellæ apparuerint, factaque in æſtate poſt meridiem, jam inclinante die, ſicut meminit Thucydides, *lib. 2. belli Peloponneſiaci pag. 117. lit. C.* quando ita ſcribit: Sol defecit poſt meridiem [ὁ ἥλι☉ ἐξέλιπε] & rurſum impletus eſt cùm factus eſſet Lunæ naſcenti ſimilis; & ſtellæ nonnullæ effulſiſſent. Ubi loquitur de totali Solis Eclipſi: non enim pars Solis defecit, ſed totus. Quod enim addit, γενόμεν☉ μηνοειδὴς, attingit cauſſam obſcurationis Solaris, quod nimirum ☽ in interlunio intercipiat lumen Solare, quæ tunc inter Græcos non adeo erat plana, unde vidit Solem iterum paulatim, ut ☽ in defectionibus ſolet, rurſus impletum; ſuoq; defectu & cavitate Lunæ rotunditatem ſibi obſtantem prodidiſſe. Vide & Plutarchum, *in vita Periclis, pag. 171. lit. C.* Valerium Maximum, *lib 8. cap. 11.* Reducimus autem ad Meridianum Athenienſem, cujus Longitudo & Latitudo in Catalogo noſtro locorum extat.

Anni	Dies	fer.	hor.	'	''	☉ Cyclus	☽
23	108	7	11	27	45	28 3	8
3496	11	2	4	30	16	31 4	0
	97	5	6	57	29	27	8
4 Novilun.	118	6	2	56	13		
die 3 Auguſti.	215	11 7 4	9	53	42		

Anni	Anom. ☉. Sex.	°	'	''	Anom. ☽. Sex.	°	'	''
23	5	53	18	41	0	22	53	56
3496	5	15	29	28	5	13	57	25
4. Novilun.	1	56	25	17	1	43	16	0
	1	5	13	26	1	20	7	21

Vera Syzygia sequitur mediam.

Æquat. ☉ subtr.	Æquat. ☽ subtr.	Motus horarius ☽
° ′ ″	° ′ ″	29′ 56″.
1 49 34	4 52 21	
12	0 7	
1 49 46	4 52 28	
	1 49 46	
	3 2 42	

		36		48
	3	6	24	
3	2	42		
29	56			6 hor. 6′ 13″.
2	59	36		
	2	29	36	
		5	59	12

	Longit. ☽ à ☉.
	° ′ ″ ‴
6. hor.	3 2 52
6′	3 2 52
13″	6 36
	3 6 1 28

Anom. ☉.	Anom. ☽.	Anom. ☉.	Anom. ☽.
Sex ° ′ ″	Sex. ° ′ ″	′ ″ ‴	° ′ ″ ‴
1 5 13 26	1 20 7 21	14 47	3 15 58
15 2	3 19 21	14 47	3 15 58
		32	7 5
1 5 28 28	1 23 26 42	15 2 19	3 19 21 3

Æq. ☉ subtr.	Æq. ☽ subtr.	Motus horarius ☽ correctus.	
° ′ ″	° ′ ″	′ ″	° ′ ″
1 49 34	4 55 5	30 5	3 6 1
27	20	2	3 5 24
1 50 1	4 55 25	30 7	37 Diff.
	1 50 1		
	3 5 24		

	21		
6	53		
37		29	1′ 13″.
30	7		
6	31	31	

H. ′ ″	Longitudo ☽ à ☉
	° ′ ″
6 6 13	3 6 1
1 13	37
6 5 0 Verum intervallum inter med. & veram ☌ luminarium.	3 5 24 jam coinc[...]

Pro Longitudine ☉

	′	″	‴
6. hor.	14	47	
5. min.		12	19
0. sec.			0
	14	59	

Pro Latitudine ☽.

°	′	″	‴
3	18	26	
	2	45	22
			0
3	21	11	

	Anomal. Æquinoct.				Longitudo ☉.				Latitudo ☽.			
Anni	Sex.	°	′	″	Sex.	°	′	″	Sex.	°	′	″
23	0	3	56	52	5	54	2	29	1	35	44	54
3496	5	49	35	50	0	15	29	35	5	14	11	1
4. Novil			1	58	1	56	25	37	2	2	40	56
	5	53	34	40	2	5	57	41	2	52	36	51
							14	59		3	21	11
					2	6	12	40	2	55	58	2
							3	0		4	55	25
					2	6	15	40	2	51	2	38
						1	50	1				
					2	4	25	39				

F. ☉ in 4 gr. 25/39″ ♌.

Argum. seu coæquatus motus Latitudinis ☽.

Æquatio Æquinoctior. add.

′	″
3	2
	2
3	0

Pro Longitudine ☽.

Sex.	°	′	″	
2	6	15	40	Simpl. motus long.
	3	5	24	☉ à vero Æquin.
2	9	21	4	
	4	55	25	
2	4	25	39	F. ☽ in 4 gr. 25/39″ ♌.

Anomal. ☽ coæquata.

Sex	°	′	″	
1	23	26	42	
			33	subtr. pro 1/13″.
1	23	26	9	
	4	55	25	
1	18	30	44	

Tempus æquandum & reducendum ad Meridianum Athenienſem.

H.	′	″	
9	53	42	Tempus mediæ ☌
6	5	0	Intervallum verum inter ver. & med. ☌.
15	58	42	Tempus à media nocte.
	9	24	Pro æquatione temporis.
15	49	18	
1	2		
16	51	18	Tempus æquatum & reductum à media nocte ad Meridianum Athenienſem: à meridie verò numeratum eſt 4 hor. 51/18″.

Alia

Alia Exempla.

Ad hunc modum etiam Astrophilus alia deliquia Solaria tractare & investigare poterit: Necesse autem est, ut interlunia sint verè Ecliptica, & quidem in iis locis & circa idem tempus, quibus Eclipses Solis historici adstringunt: Inveniuntur enim nonnulli Chronologi recentiores, qui in iis annis Eclipses Solares constituunt, ubi nullæ ad Tabulas Cœlestium revolutionum Luminarium videri potuerunt, iis præsertim in locis, de quibus Historiographi eas affirmant. Sicut supra tale Exemplum ex Hervvarti ab Hohenburg *Chronologia cap. 145.* adduximus, & passim in Sethi Calvisii Chronologia ejusmodi hallucinationes Hervvarti annotantur. Sic Büntingus, *in sua Chronologia Catholica, pag. 84.* computavit Eclipsin ☉, quæ accidit Periodo Scaligerana 4132, anno secundo Olympiadis 42, ad diem 1 Octobris, quam fuisse exstimat eam, quam Solinus, *cap. 25.* designavit, qua visa bellum Lydium compositum fuerit, cujus & mentionem facit Herodotus, *lib.* 1. Plinius, *lib. 2. cap. 12.* Cicero, *de divinatione*, Clemens Alexandrinus, *lib. 1. Stromat.* Eusebius, *libro 2. Chronici:* verùm tunc temporis neq; Sardibus Lydiæ, neq; in Græcia, neq; in Asia Sol eclipsin passus est; quia iis in locis, secundum illud intervallum inter veram & visam ☌ ☉ ☽ quam parallaxis Longitudinis ☽ requirit, nondum ortus fuit; unde defectus Solis ab illis populis nequaquam conspici potuit; sed biennio post, anno nimirum mundi, secundum Chronologiam Calvisii, 3369 die 16. Martii, feria 6. ubi Tu Astrophile eam quære. Dionysius quidem Petavius, Scaligero & Calvisio-mastyx, *lib. 10. de doctrina temporum, pag. 155.* hanc Eclipsin Solis contendit esse conspectam Anno periodi Julianæ 4117. in Asia minore, & quidem die 9. Julii anno nimirum mundi, ad Chronologiam Calvisii, 3353 die 9 Julii, feria 3 Juliano stylo, ubi vera Syzygia Solis & Lunæ Sardibus Lydiæ accidit hora 7. min. 39 Verùm & hic Petavius, qui alioquin vult videri oculatissimus, turpiter hallucinatus est, orbiq; litteratorum voluit persvadere, quasi in Asia minore tunc Eclipsis Solis videri potuerit. At calculus planè repugnat. Eo enim tempore Luna nullam obtinuit parallaxin Latitudinis: Sed omnis ejus parallaxis excurrit in Longitudinem, eò quod Locus Sol in signo maximè Septentrionali, nempe in 9 gr. ♋. à nonagesimo Eclipticæ gradu fuerit remotissimus, & Horoscopo propiùs adhæserit, ita ut parallaxis Longitudinis Lunæ ad unam horam ante ☌ veram 52/39// extiterit: Parallaxis Latitudinis verò nulla data sit: vera autem Latitudo ☽ septentriona-

trionalis fuerit 33', major aggregato semidiametrorum Luminarium. Proinde nequaquam tunc in Asia minore hoc interlunium potuit esse Eclipticum, sed in illis locis qui sub Longitudine 119 graduum habitant, & ultra duas horas Asiaticis populis in Media vel Lydia fuerunt Orientaliores: tantoq; major apparuit ea Eclipsis, quanta Septentrioni hæc loca viciniora fuerunt: Nam sub latitudine 57 gr. Septentrionali apud populos, qui hodie inveniuntur (si forte tunc iste tractus terræ habitabilis fuit) in regione Tartariæ Karkithay, & qui ad lacum Kithay, & Oby fluvium habitarunt, hæc Eclipsis fermè totalis visa est. Frustra igitur Petavius Medici prælii annum hîc quærit, qui si veritatis Astronomicæ amans fuerit, & hanc Eclipsin ad diligentiores calculos revocaverit, certè nullum convenientiorem annum pro pugna illa Medica, quàm annum periodi mundi Scaligeranæ 4133. diem 16 Martii, feriam 6 inveniet, ubi Sardibus Lydiæ & in Asia minore, post hor 8. matutinam lumine ad 8 digitos Sol privatus est: quod si loca Orientaliora Sardibus Lydiæ eligamus, eò major evadet hæc Eclipsis ☉: Nam Ecbatanæ Persiæ, quæ hodie Tauris dicitur, prope totalis apparuit. Nos igitur talia interlunia hîc proponimus, quæ verè fuerunt Ecliptica, quale & fuit secunda Eclipsis ☉ ab Albategnio, Anno Christi 901. observata, quam ex eo Regiomontanus, *lib. 5. Epitomes Almagesti, proposit. 21.* Ita describit: *Secunda Eclipsis Solis fuit anno à morte Alexandri 1224.* [nam in numero 1214 mendum est] *ante mediam diem 23 diei mensis Kalbat, tribus horis & duabus tertiis horæ unius æqualis in Antiochia, Solq; paulò ultra medietatem suam secundum visum obscuratus est. In Aracta verò Eclipsis medium accidit, ante meridiem tribus horis & dimidia unius æqualis, & nonnihil minùs quàm duæ tertiæ diametri Solis partes de corpore Solis obtenebratæ sunt secundum visum. Sol fuit in 8. gr. 37' ♒.* Hactenus observatio Albategnii. Hancq; Eclipsin Solis eò lubentius sumo, quia non tantùm à Büntingo & Calvisio, verùm etiam à novissimo Chronologo Dionysio Petavio, *in magno suo opere de doctrina temporum, lib 8. pag 868 & seqq.* prætérita est, cùm tamen is glorietur, quod calculum Eclipsium Solarium ab Antiquis & Historicis & Astronomis observatarum in lib. suo 8. attexuerit. Idcirco ex neglectu hujus deliquii Solaris eum ubiq; in suo grandi volumine, de doctrina temporum, non lynceum fuisse patet. Priusquam autem summa

ma capita hujus Eclipsis ex hoc capite deducta apponam, præmonendus es Astrophile de Latitudine & Longitudine Aractæ, quo in loco Albategnius hanc Eclipsin observavit. Aracta igitur est civitas in Syria, fortè Carrhæ; celebres clade Marci Crassi Romani, vel Haran Mesopotamiæ, ut quidam volunt, de qua Ptolemæus, *lib.5 Geographiæ, cap.18.* quæ hodie Orfa dicitur, & quinq; dierum itinere ab Antiochia vel Aleppo distat, ejusq; Latitudo à Kepplero 36 gr. Longitudo verò 37 gr. 45 min. assumitur, quam & hic retinuimus, eamq;, Astrophile, Catalogo Longitudinum & Latitudinum locorum inserere poteris: Siquidem & Longitudo & Latitudo talis ex observationibus Albategnii & motu ☽ elicitur. Quocirca tempus medium hujus Eclipsis ☉ Meridiano Uraniburgico accommodatum accidit anno Christi DCCCCI. aureo numero existente 9 Cyclo ☉ 14 Litera D. Dominicali, die 22 Januarii, feria 5. hor. 20.8 min. 48 sec. à media nocte. Intervallum inter mediam & veram ☌ addendum invenitur 10 horar. 56/18//. Motus horarius ☽ simplex datur 31/52//. correctus 32/4//. Anomalia ☉ 3 sexag. 43 gr. 22/27//. Æquatio ☉ add. 1 gr. 26/32//. Anomalia ☽ 2 sexag. 5 gr. 38/31//. Æquatio ☽ subtrah. 4 gr 6/49//. Et propterea Anomalia ☽ coæquata 1 sex. 1 gr. 31/7//. Coæquatus motus Latitudinis ☽ 2 sex. 48 gr. 57/27//. Longitudo ☽ à Sole 5 gr. 33/22//. cum aggregato Æquationum Luminarium eadem. Anomalia æquinoctiorum 2 sexag 6 gr. 37/28//. Æquatio æquinoctior. subtr. 22/2//. Longitudo vera Solis & Lunæ 5 sexag. 8 gr. 1/14//. ad tempus veræ Syzygiæ, ita ut exstiterint Luminaria in 8 gr. 1/14// ♒. Æquatio temporis subtrahenda est 9/44//. Reductio ad Meridianum Aractensem 2 hor. 28 min. ita ut vera ☌ ☉ & ☽ Aractæ acciderit die 23 Jan. fer. 6. hor. 9. min. 23 sec. 22. ante meridiem Calendario Juliano, horisq; à media nocte numeratis.

Tertium Exemplum esto calculus defectionis Solaris, quæ accidet anno Christi 1645. die 11 Augusti, feria 2. Cyclo ☉ 2 ☽ 12. nobisq; erit conspicua. Tempus medium hujus Synodi Solis & Lunæ incidet in diem 12 Augusti fer 3. hor. 1. 32/26// à media nocte. Intervallum inter mediam & veram Syzygiam invenitur 12 horarum 49 min 38 sec. subtrahendum: Vera enim Synodus præcedit mediam. Anomalia Solis ad tempus medium veræ ☌ est 0 sex. 53 gr. 35/41//. Æquatio Solis subtrah. 1 gr 36/44//. Anomalia ☽ ad idem tempus 4 sex. 18 gr. 35/52//. Æquatio ☽ add. 4 gr. 54/9//. Motus horarius ☽ simplex 30/35//. correctus 30/59 Anomalia æquinoctiorum 3 sex. 21 gr. 3/49//. Æquatio æquinoctiorum add.

add 9/52//. Longitudo Solis simplex 2 sex. 29 gr. 57/2//. vera autem Longitudo Luminarium 2 sex. 28 gr. 30/10//. Ita ut utrumq; cadat in 28 gr. 30/10// ♌. Anomalia ☽ coæquata 4 sex. 23 gr. 33/34//. Coæquatus motus Latitudinis ☽ o sex. 9 gr. 53/7//. Æquatio temporis subtr. 8/41//. Ita ut Uraniburgi tempus apparens veræ Synodi Luminarium futurum sit die 11 Augusti, fer. 2. hora 12. min. 34. sec 7. sub meridiei tempus.

Caput III.

De ratione enucleandi Parallaxes Luminarium in Eclipsibus Solis, per altitudinem eorundem, inprimis autem Solis supra Horizontem, per Parallaxin Solis & Lunæ, item Lunæ à Sole, per distantiam Luminarium à puncto Oriente vel occidente, & denique per Angulum Eclipticæ cum verticali.

Sepositis hîc nonnihil Eclipsibus Lunaribus, nobis in hoc & sequente capite, Solaribus duntaxat immorandum erit, eò quod obscurationes Lunares nullam Parallaxin Luminarium requirant, sed unicè Solares. Cùm autem Luminarium Parallaxes acquiri nequeant nisi prius cognita fuerit eorundem altitudo supra Horizontem: Idcirco modus altitudinem Luminarium indagandi ex *præmissis problematibus sectionis primæ* hîc repetendus erit. Constat enim ille modus ex solutione unius Trianguli sphærici obliquanguli. Primùm enim in promtu sit Declinatio ☉, sive ea sit Borea sive Australis: Deinde distantia ejus à Meridiano seu medio cœli: Ita enim in Triangulo Sphærico dantur duo latera, unum ex complemento Altitudinis poli seu distantia poli & Horizontis; alterum ex complemento Declinationis Solis vel Lunæ, si ea septentrionalis fuerit: Sin Meridionalis ex excessu Declinationis supra Quadrantem, unà cum Angulo comprehenso, quem mensurat distantia Solis à Meridiano in gradibus & minutis; hinc *per Casum 3 capit 7. sect. 1.* elicitur tertium latus exhibens quæsitam Altitudinem Luminarium. Quanquam autem *in problemate 13. sect. 1.* facilem modum indagandi Parallaxes Lunæ tradiderim, tamen hîc eo non tantùm erimus contenti, sed nos conformantes vestigiis Tychonis, quæ *lib. 1. progymnasm. pag. 127. & 132.* pressit, alium & hîc proponemus æque brevem & omnium accuratissimum, qui & omnibus Phænomenis ☽, quæ ei cum Stellis fixis intercedunt,

cedunt, applicari potest. Nam quando jam constat Altitudo Luminarium, tunc *ex Tabula Parallaxium Luminarium sub lit.* Ξ per altitudinem ☉ elice Parallaxin Solis; per altitudinem verò ☽ & distantiam ☽æ à terra in Semidiametris [quam *ex Tabula* N cum anomalia Lunæ coæquata venaberis] excerpe parallaxin altitudinis Lunæ. Deinde quoq; vel ex Tabulis Domorum, vel Ascensionum Obliquarum Regiomontani, ad datum tempus apparens veræ Synodi Solis & Lunæ, datamq́; Elevationem poli colligenda est distantia Luminarium à puncto Oriente vel Occidente, nempe secundum eundem Eclipticæ gradum, cui Luminaria fuerint propinquiora. Præstat autem colligere tàm altitudinem Luminarium, quàm distantiam eorundem ab Horoscopo vel Angulo Occidentis, per unam horam, vel nonnunquam per semissem horæ retrò ante Conjunctionem veram Solis & Lunæ: quia Sole existente in plaga Orientali, respectu nonagesimi gradus Eclipticæ, semper visa vel apparens Synodus ☉ ac ☽æ, quæ Eclipsin affert, præcedit veram: Quando verò Luminaria in plaga occidentali, respectu ejusdem nonagesimi gradus, morantur, tunc visa ☌ semper sequitur veram: Ea propter necesse est, ut Altitudo Luminarium & distantia eorundem à cardine 1 vel 7. domus, respectu hujus positus, per unam horam retrò antè ☌, vel post eandem colligantur, prout visa ☌ veram vel præcesserit, vel subsecutura sit. Adhæc eliciendus est Angulus Eclipticæ cum verticali ex datis duobus, videlicet ex distantia Luminarium à puncto Ascendente vel Descendente, & ex Altitudine Luminarium: Ita enim *per Casum* 14. *cap.* 6. data base, hoc est, distantia Luminaris à puncto Ascendente vel Descendente, cum uno Latere, videlicet altitudine ejusdem, innotescet Angulus, quem Verticalis in dicto loco cum Signifero constituit, vocaturq́; Angulus Eclipticæ cum circulo Altitudinis seu Verticali: Hæc enim omnia ad investigandam Parallaxin Longitudinis & Latitudinis ☽ ducunt. Admirabili autem Canonis Logarithmorum compendio calculus, alioquin spinosus & errori obnoxius, facilior redditur, laborisq; tædium minuitur, ut ex continuatione exemplorum trium propositarum Solis Eclipsium apparebit.

Continuatio Exemplorum Eclipsium ☉.

1. In Eclipsi Solis quæ accidit anno Mundi 3519. die 3 Augusti post meridiem, cùm in plaga Occidentali ea contigerit, idcirca visa ☌ veram secuta est. Quamobrem Altitudinem ☉ post unam horam ☌ ☉ & ☽ inquire-

quiremus, hoc est ad horam 5, min. 51, sec. 18. ☉ ad tempus veræ ☍ inventus est in 4 gr. 25/39/♌. Pro elapsa autem una hora ei ex *Tabula* E colligo 2/28// addenda.

Gr.	M.	S.	
4	25	39	♌.
	2	28	
4	28	7	♌ ad horam 5,51/18//.

Pro Declinatione Solis investiganda, datur distantia ☉ à Tropico ♋.

Gr.	M.	S.	
90			Tr. ♋.
34	28	0	Elongatio ☉ à Trop. ♋.
55	32		Distantia ☉ à puncto ♎ Æquinoctiali.

91842 Log–us distantiæ max. Obliquit. Eclipticæ 23 gr. 31/30//.
19303 Log–us dist. Long ☉ à puncto ♎ Æquin.
111145 Log–us Declination. ☉ 19 gr. 13/.

	Gr.	M.	
Ascensio ☉ Recta est	126	49	
	87	50	Tempus à merid. in hor. 5, min. 51, sec. 18.
	214	39	
	90		
	304	39	Asc. Obliq. puncti Orientis ad Latit. Athenienſ. 38 gr. in 14 gr. 19/ ♑.

Ergo punctum Occidens in eadem Latitudine est in opposito signo, videlicet 14 gr. 19/ ♋.

Porrò ad investigandam Altitudinem ☉ supra horizontem in eadem Elevatione poli, dantur 3 διδόμενα: 1 Distantia polorum & Horizontis, 52 gr. 2. Complementum Declinat. Sol. Septentr. 70 gr. 47/. 3. Tempus à meridie in gradibus & minutis 87 gr. 50/.

23824 Log–us lat. minor. 52 gr.
71 Log–us Anguli Comprehensi 87 gr. 50/. (3/10//.
23895 Log–us perpendiculi 51 gr. 56/50// complementũ est 38 gr.

Gr.	Min.			
			48506	Antilog–us later. min. 38 gr.
70	47	Latus majus	48388	Antilog–us perpendiculi 38 gr. 3/10//.
2	47	Arcus Elem. 1.	118	Log–us Arcus 87 gr. 13/ cujus complementum 2 gr. 47/ est Elementum primum.
68	0	Elementum 2.		

98188 Antilog–us Elem.2.
48388 Antilog–us perpendiculi.

146576 dat.13 gr.21/qui arcus Altitud. ☉ supra Horizontem monstrat.

Ad Altitudinem ☽ investigandam, utut Altitudo ☉ hîc sufficere posset, tamen, ut tironem exerceamus, & eam exactè rimabimur.

Gr.	M.	S.	
4	25	39	♌ Longitudo ☽ ad tempus veræ Syzygiæ.
	30	7	Motus horarius ☽.
4	55	46	

Ergo ☽ post unam horam ♂ fuit in 4 gr. 56/ ♌.

Ad inquirendam Latitudinem ☽ requiritur argumentum seu coæquatus motus Latitudinis ☽ supra inventus.

Sex.	o	/	//	
2	51	2	38	
		33	4	Pro 1 hora add. in motu Lat.
2	51	35	42	Argument. Latit ☽ ad tempus hor. 5. min. 51. sec. 18.

Hinc emergit Latitudo ☽ Septentrionalis ferè 43/50//. Ergo & hîc datur Declinatio ☽ septentrionalis 19 gr. 47/. A R. ☽ 127 gr. 30/: & propterea dantur etiam hîc tria requisita ad supputandam Altitudinem ☽. 1. Distantia polorum & Horizontis 52 gr. 2. Complementum Declinationis ☽ 70 gr. 13/. 3. Distantia ☽ à Meridiano 87 gr. 9/.

23824 Log–us later. min. 52 gr.
124 Log–us Anguli comprehensi 87 gr. 9/.

23948 Log–us perpendiculi 51 gr. 54/ 30// cujus complementum est 38 gr. 5/30//.

Gr.	M.		
70	13	Latus majus	48506 Antilog–us lat. min.
3	40	Elem. 1.	48301 Antilogus perpendiculi.
66	33	Elem. 2.	205 Antilogus cujus arcus 3 gr. 40/ Elem. 1.

92143 Antilog–us Elem. 2.
48301 Antilog–us perpendiculi.

140444 dat 14 gr. 13/. Altitudinem ☽ quæsitam.

Per hasce Altitudines *ex Tabula Parallaxium Luminarium sub lit. Z* elicitur Parallaxis ☉ 2/55//. Parallaxis ☽ verò in Semidiametris 57, min. 2.

/	//
58	48
	3
58	45
	2
58	43 Parallaxis ☽.

Postea

Postea subtrahitur Parallaxis ☉ à Parallaxi ☽, ut relinquatur Parallaxis Lunæ ad Solem, videlicet 55/48//.

Ad inquirendum Angulum Eclipticæ cum Verticali requiritur primùm Altitudo Solis, quæ inventa est 13 gr.21/. Deinde distantia Solis à puncto Occidente.

Gr.	M.	S.	
34	28	7	Distantia ☉ à Tropico ♋.
14	19		♋ Punctum Occidens.
20	9	7	Distantia ☉ à puncto gradus Occidentis.

143838 + Mesolog—us Altitud. ☉.
100256 + Mesolog—us distantiæ ☉ à puncto descendente.

43582 Antilog—us Anguli Eclipticæ cum Verticali, unde datur ipse Angulus Eclipticæ cum circulo Altitudinis vel Verticali 49 gr. 42/ 20//.

In altero Exemplo.

Cùm visa seu apparens ☌, Luminaribus existentibus in plaga Orientali, præcedat veram, idcirco Locus Solis inquiritur ad unam horam retrò & ante ☌ veram, videlicet ad horam 8, 23/22//. Inveniturq; ☉ in 7 gr. 59/ ♒. Ascensio recta ☉ datur 310 gr 2 /. Distantia ☉ à Meridiano 54 gr. 10/. Declinatio ☉ Meridiana 17 gr.23/. Hinc dantur tria ad eliciendam Altitudinem Luminarium, 1 Distantia poli & Horizontis 54 gr. 2. Excessus Declinat ☉ supra Quadrantem 108 gr.23/ 3. Distantia ☉ à Meridiano 54 gr. 10/. Quocirca altitudo Luminarium elicitur 15 gr. 19/. & distantia ☉ à puncto Orientis 30 gr.25/ Ascendit enim in Oriente 8 gradus cum 24/ ♓. Et datur Parallaxis ☽ 59/ 41//. Parallaxis ☽ à ☉ 56/ 47//. Angulus Eclipticæ cum verticali, 62 gr. 11/ 50//.

In tertio Exemplo.

Cùm Luminaria nondum attigerint nonagesimum Eclipticæ gradum, idcirco & hîc visa ☌ antegreditur veram. Proinde supputata est altitudo ☉ cum angulo Eclipticæ ad semihoram ante ☌ veram, ubi ☉ extitit in 28 gr.29/ ♌. Asc. ejus R. fuit 150 g.39/. Punctum Ascendens 10 gr. 87 ♏. Distantia ☉ à nonagesimo 12 gr 57/. Altitudo ☉ 46 gr.2/. Parallaxis ☉ 2/5//. Parallaxis ☽ in semidiametris terræ 56 32// est 42/47//. Parallaxis ☽ à ☉ 40/42/. Angulus Eclipticæ cum verticali 75 gr. 8/.

Hisce jam cognitis rectà ad distribuendam Parallaxin Altitudinis ☽ à ☉ secundum Longitudinem ac Latitudinem progredimur, in capite sequenti.

CAPUT

CAPUT IV.

De investigando intervallo inter veram ac visam ☌ Luminarium ex Parallaxi Longitudinis Lunæ, viaq; unà eruendi Parallaxin Latitudinis ☽.

INtervallum inter verum & apparentem locum Stellæ in cœlo à Ptolomæo παράλλαξις vocatur, à Latinis diversitas Aspectus dicitur. Est enim aberratio visus nostri à vero Planetæ loco. Ad cognoscendam autem distantiam inter veram & visam seu apparentem Synodum Solis ac Lunæ requiritur notitia Parallaxis Longitudinis, quæ est discrepantia arcus paralleli Eclipticæ inter verum ☽ locum & visibilem intercepti, quemadmodum Parallaxis Latitudinis est spacium inter circulos Latitudinis veræ & visæ ☽ comprehensum. Ad perquirendam autem Parallaxin Longitudinis, ut & Latitudinis, hæ primùm Regulæ observentur. 1. Quoties distantia ☽ à puncto Ascendente vel descendente supra Horizontem minor est altitudine ejusdem, toties omnis Parallaxis Altitudinis Lunæ à Sole in Longitudinem excurrit, & tunc est maxima Parallaxis Longitudinis ☽, nullaq; datur Parallaxis Latitudinis. 2. Quoties verò distantia Altitudinem superat, tunc Parallaxis Altitudinis in diversitatem Aspectus secundum Longitudinem ac Latitudinem distribui potest; nisi fortè ☽ nonagesimum Eclipticæ gradum obtinuerit: tunc enim Parallaxis Altitudinis Lunæ tota in Parallaxin Latitudinis ejusdem cedit. 3. In Septentrionalibus Signis maxima Longitudinis ☽ Parallaxis est supra Horizontem; in Signis Meridionalibus sub Horizonte: In Æquinoctialibus verò in ipso Horizonte. 4. Adhæc nobis ultra trigesimum Latitudinis poli gradum, hoc est, ultra secundum clima habitantibus, Parallaxis Latitudinis ☽ semper in Austrum cadit: unde & ☽ semper nobis apparet Australior, etiam quando nulla est Parallaxis ☽ in Longitudine.

Cæterùm quod attinet spacium Temporis, quod inter veram & apparentem ☌ Luminarium intercedit, illud semper in recenti memoria tenendum est, quod si Luminaria conjungantur in 90 gradu Eclipticæ ab Horizonte, tunc vera Synodus Luminarium cum apparente in idem incidat momentum temporis: siquidem talis gradus uniformis manet in eo circulo, qui per verticem capitis & Eclipticæ polos ducitur, dicitur que circulus Altitudinis vel Verticalis: si verò contingat Luminarium

an-

ante 90 gradum in Orientali plaga, hoc eſt, inter horizontem Orientalem & 90 gradum, tunc ſemper apparens Synodus veram præcedit, & quandoq; apud nos differentiam unius horæ cum dodrante aſſequi poteſt: Poſt eundem verò 90 gradum, hoc eſt, ſi Conjunctio in plaga Cœli Occidentali, ſeu inter Occidentalem Horizontem & 90 gr. fiat, tunc apparens Synodus ſequitur veram; ſiquidem verus locus ☽ ſemper altior eſt ſupra Horizontem, quàm viſus & apparens, ipſumq́; intervallum temporis inter veram & viſam ☌ tantò majus fit, quantò ☽ propinquior eſt Horizonti; contrà tantò minus invenitur, quantò ☽ vicinior fuerit nonageſimo Eclipticæ gradui. Hoc igitur intervallum ita cognoſcitur. Ex ſuperiore capite primùm conſtat Parallaxis Altitudinis ☽ à ☉, quando ſcilicet Parallaxis Altitudinis Solis à Parallaxi Altitudinis ☽ ſubtrahitur: Deinde etiam non ignotus eſt Angulus Signiferi cum circulo Verticali: quamobrem quando *per Caſum 10. cap. 6* Antilog—us anguli Eclipticæ cum verticali additur Meſologarithmo Parallaxis Altitudinis ☽ à ☉, innoreſcet latus exprimens Parallaxin Longitudinis Lunæ ad Solem. Deinde eadem facilitate obtineri poteſt Parallaxis Latitudinis Lunæ ad Solem, quando ſcilicet *per Caſum 1. cap. 6.* Log—us anguli Eclipticæ cum Verticali additur Log—o Parallaxis Altitudinis ☽ à ☉, tunc enim emergit Parallaxis Latitudinis Lunæ ad ad Solem. Etſi verò hæc parallaxis ☽ in Latitudinem tantùm requiratur ad cognoſcendam quantitatem deliquii Solaris: tamen ſi illa ſimul excerpatur cum Longitudinis Lunę ad Solem Parallaxi, tunc ſine evidenti errore Parallaxis ☽ in Latitudinem ad exquiſitum viſibilis ☌ Luminarium tempus, obſervata differentia Parallaxis Latitudinis unius horæ, & accepta parte proportionali, eaq́; Parallaxi Latitudinis applicata, explorari poteſt. Cognita porrò Parallaxi Longitudinis ☽, ad tempus unius horæ elapſum ante vel poſt veram ☌, prout viſa ☌ vel antecedit vel ſequitur veram., confer cum motu ☽ horario vero: quod ſi Parallaxis Longitudinis ☽ maior eſt motu ☽ horario vero, tunc viſa ☌ in Quadrante Orientali etiam ultra horam antecedit veram ☌: in Quadrante verò Occidentali ultra horæ ſpacium ſequitur. In hoc autem caſu Te non pœniteat, Aſtrophile, denuo ſecundum præcepta hujus & prioris capitis eruere Parallaxin Longitudinis & Latitudinis ☽ ad ☉, per intervallum duarum horarum ante vel poſt ☌ veram. Si verò Parallaxis ☽ in Longitudinem minor eſt motu ☽ horario vero, tunc viſa ſeu apparens ☌ cadit inter hoc ſpacium unius horæ, & vera à viſa ſaltem per aliquot minuta temporis differt. Hiſce cognitis, accipe primùm, Lumina-

ribus conſtitutis in Quadrante Orientali, & diſtante viſa ☌ à vera ultra horam, differentia inter motum ☽ horarium verum & inter Parallaxin Longitudinis ☽ horæ ☌ apparenti proximæ: Deinde etiam accipe differentiam Parallaxis Longitudinis ☽ inter utramq; horam, quam ſubtrahe à motu ☽ horario vero, remanebitq; viſus motus horarius Lunæ ad Solem: Nam verus motus horarius ☽ reſpectu motus horarii Solis ſatis eſt limitatus, ut ulteriore correctione non indigeat. Quocirca conſtitue primo loco viſum motum horarium ☽: ſecundo loco unam horam ſeu 60 ſcrupula, & tertio loco differentiam inter motum ☽ horarium verum & Parallaxin Longitud. ☽ ad unam horam ante ☌ veram: quotus oſtendet intervallum inter veram & viſam ☌. Si verò Parallaxis Longitudinis ☽ ad tempus veræ ☌ in Quadrante Orientali minor fuerit motu ☽ horario vero, tunc ſufficit explorare Parallaxin Longitudinis & Latitudinis ☽ ad unam horam vel ſemiſſem, prout differentia major minorvé viſa fuerit: poſt aſſumta utrobiq; differentia primùm inter differentiam Parallaxis Longitudinis ☽ utriusq; & verum horarium motum ☽, ſubtrahendo ſcilicet differentiam utriusque Parallaxis à vero motu ☽ horario, ſi Parallaxis Longitudinis decreverit; addendo verò eandem motui horario ☽ vero à Sole, ſi accreverit, ut viſus motus horarius ☽ prodeat: Aſſumtà etiam differentia inter Parallaxin Longitudinis ☽ ad horariũ tempus ante veram ☌, & inter motum horarium ☽ verum: tunc eodem modo procedendo, ut ante, prodibit complementum intervalli inter veram ac viſam ☌. Oportet autem Parallaxin Longitudinis ☽ ſub tempus viſæ ☌ æqualem eſſe evectioni ☽ reſpectu motus horarii ☽ veri & intervalli inter veram & viſam ☌, id quod temporis apparentis ☌ Luminarium recte conſtituti argumentum & proba eſt. Quando enim accipitur evectio ☽ ad intervallum temporis inter viſam ac veram ☌ reſpectu motus horarii ☽ veri: quando etiam Parallaxis Longitudinis ☽ ad idem tempus eſt eruta, tunc evectio ☽ cum Parallaxi Longitudinis ejusdem in ſcrupulis primis & ſecundis convenit. Quod ſi ☌ Luminariũ in Quadrante Occidentali [ubi ſemper viſa ☌ ſequitur veram] contigerit, eodem modo poſt unam vel alteram horam ☌ veræ, prout Parallaxis Longitudinis ☽ major vel minor fuerit motu horario ☽ vero, itidem differentia Parallaxium Longitudinis ☽ ſubtrahatur à motu horario ☽, ſi accreverit Parallaxis, vel addatur eidem motui horario, ſi decreverit, id quod prodit eſt viſus motus horarius ☽ & diviſor; differentia verò inter motum ☽ horarium & inter Parallaxin Longitudinis ☽ poſt unam horam veræ ☌ eſt dividen-

dus:

dus: quotiens ostendit intervallum horarium inter visam & veram ☌. Hoc intervallum etiam ad examen revocare poteris. Nam si Parallaxis Longitud. ☽ ad tempus visæ ☌ cum evectione ☽ ad magnitudinem inter visam & veram ☌ respectu veri motus horarii ☽ eadem fuerit, tunc intervallum rectè exploratum esse colligitur. Si autem prior deliquii Solaris pars in Quadrante Orientali, posterior verò in Occidentali consumatur, nempe post 90 gradum, qui ambos Quadrantes dirimit, tunc conjice in unam summam Parallaxin utriusq; Longitudinis ☽, & aggregatum adjice motui horario ☽ vero, habebisq; visum motum horarium. Deinde quoq; minorem Parallaxin Longitudinis à majore subtrahe, & differentiam adde motui ☽ horario vero, quod divide per visum motum horarium ☽, sic proximè emerget intervallum inter visam & veram ☌ addendum tempori veræ ☌. Ex hisce igitur perspicitur, quod semper intervallum inter veram ac visam ☌ in Quadrante Orientali ante 90 Eclipticæ gradum subtrahendum sit à tempore veræ ☌: in Quadrante verò Occidentali addendum, ut prosiliat tempus apparens ☌ Luminarium.

Continuatio Exempli primi in Eclipsi ☉.

In priore capite inventus est Antilogarithmus Anguli Eclipticæ cum verticali 4358 . Parallaxis autem Altitudinis ☽ à ☉ 55/48//. Ergo & datur *per Casum o. cap 6.* Parallaxis Longitudinis Lunæ ad Solem.

412071 + Mesolog_us Parallax. Altitud. ☽ à ☉ 55/48//.
43582 Antilog_us Anguli Eclipticæ cum verticali 49 gr. 42/20//.
455653 + Mesolog_us Parall. Longitud Lunæ ad Solem 36/5//.

Eodem modo *per Casum 1, cap. 6,* elicitur quoq; Parallaxis Latitudinis Lunæ ad Solem.

412084 Log_us Parallax. Altitud. ☽ à ☉ 55/48//.
27085 Log_us Anguli Eclipticæ cum Verticali 49 gr. 42/20//.
439169 Log_us Parallaxis Latitudinis Lun. ad Sol qui est 42, 34//.

Cùm verò hæc Parallaxis Longitudinis Lunæ, quæ est 36, 5//, excedat motum horarium verum, qui est 30/7//, ideoq; indicio est visam, ☌ ☉ & ☽ adhuc post horam 5, 51/19// contigisse. Quamobrem Te non pœniteat etiam Altitudinem ☉ ac ☽ circiter hor. 6, min. 51. sec. 19. vespertinam indagare, ex quo postmodum etiam Parallaxis Longitudinis & Latitudinis innotescet, eodem modo, quo jam operati sumus.

Gr. M. S.
4 25 39 ♌ Locus ☉ ad tempus veræ ☌ Luminarium.
4 55 Pro duabus horis elapsis addenda.
4 30 34 E. ☉ ad hoc tempus extitit in 4 gr 30½/ ♌

G. M. S. 91842 Log-us maximæ Obliquit. Eclipticæ.
90 19353 Log-us dist. ☉ à punct. ♎.
34 30 30 111195 Declinatio ☉ 19 gr. 12/ 10//.
55 29 30 Distantia ☉ à puncto ♎.

Potest etiam inquiri tempus occasus ☉ eo tempore ad meridianum Atheniensem.

105472 + Mesolog-us Declin. ☉.
24681 + Mesolog-us Elevat. poli 38 gr.
130153 Log-us differentiæ Ascensionalis 15 gr. 47/, qui arcus dat 1 hor. & 3 minusa: quod si adhuc duo minuta ob refractionem ☉ addantur huic tempori, patet, Solem tunc Athenis occidisse hora 7. min. 5. non autem præcise hora 7. post meridiem, ut contendit Petavius, *lic. 8. de doctrina temporum, pag. 792.*

° /
AR ☉ 126 46
102 50 Tempus à meridie elapsum in gradus conversum.
229 36 AR medii Cœli.
90
319 36 AO Horoscopi.

Ergo 2 gr. 12/ ♒ Punctum Oriens, & punctum Occidens 2 gr. 12/ ♌.

° /
4 30 ♌ Locus ☉.
2 12 Punctum Occidens.
2 18 Distantia ☉ à puncto Occidente.

Dantur igitur pro Altitudine ☉ hæc tria: 1 Distantia Poli & Horizontis 52 gr. 0/. 2 Complementum Declinationis ☉ 70 gr. 48/. 3 Tempus à meridie 102 gr. 50/.

23824 Log-us lat. minor.
2530 Log-us anguli comprehensi 77 gr. 10/
26354 Antilog-us perpendiculi 39 gr. 47/ 50//.

48506

48506 Antilog-us lat. min.
44617 Antilog-us perpendiculi.
3889 Antilog-us Elementi primi 15 gr. 52/30//.

°	′		
70	48		Latus majus.
15	52	30	Elem. 1.
86	40	30	Elem. 2.

284732 Antilog-us Elem 2.
44617 Antilog-us perpendiculi.
329349 dat Log-um Altitudinis ☉ 2 gr 8/.

Inquiramus etiam Altitudinem ☽ post duas horas.

°	′	″	
4	25	39	♌ Longitudo ☽ ad tempus veræ ☌.
1	0	14	Motus ☽ pro 2 horis.
5	25	53	Ergo ☽ in 5 gr. 26/ ♌.

	Sex.	°	′	″			Sex.	°	′	″
Latit. ☽	2	55	58	3		Anom. ☽.	1	23	26	42
		1	6	9	Latitudo ☾ pro 2 horis.			1	5	19
	2	57	4	12			1	24	32	1
		4	56	17		E Æquatio ☽ subtr 4 gr. 56/17//.				
	2	52	7	55	Coæquatus motus Latitud.					

qui ostendit Latitudinem ☽ Septentrionalem 41/ 1//; & declinationem quoq; ejus Septentrionalem 19 gr 37/, nec non Ascensionem R 128 gr. 0/. Relinquitur igitur distantia à medio Cœli 100 gr 56/. Quare pro Altitudine ☽ inquirenda jam etiam nota sunt hæc tria διδόμενα. 1 Est 52 gr. 0/. Distantia poli & Horizontis. 2. 70 gr. 23/ Complem. Declin. ☽. 3. 100 gr. 56/ Distantia ☽ à Med cœli.

23824 Log-us lat. min.
1832 Log-us Anguli comprehensi 79 gr. 4/.
25656 Antilog-us perpend. 39 gr. 19/10//.

48506 Antilog. lat. min.
45627 Antilog perpend.
2879 Antilog-us Elem. 1. 13 gr. 41/.

°	′	
70	23	Latus majus.
13	41	Elem. 1.
84	4	Elem. 2.

 226943

226943 Antilog—us Elementi 2.
45627 Antilog—us perpend.

272570 Log—us qui dat 3 gr. 45/ 20// Altitudinem Lunæ.

Cum Altitudine ☉ *ex Tabula* z elicitur Parallaxis ☉ præcisè 3/ 0// Anomalia ☽ coæquata dat. 57 semidiametros. 1//. & Altitudo ☽ ex ead. *Tab.* exhibet Parallaxin Altitudin. ☽ 60/ 15//, à qua si parallaxis ☉ subtrahatur, relinquitur Parallaxis Altitudinis Lunæ à Sole 57/ 15//. Distantia ☉ à puncto Occidente 2 gr. 18/.

329008 + Mesolog—us Altitud ☉ 2 gr. 8/.
321478 + Mesolog—us distantiæ ☉ à puncto descend.

7530 Antilog—us anguli Eclipticæ cum Verticali, qui est 21 gr. (57/30//.

Pro Parallaxi Longitudinis Lunæ ad Solem.

409506 + Mesolog—us Parallaxis Altitud Lunæ à Sole.
7530 Antilog—us Ang. Eclipt. cum Vert.

417036 + Mesolog—us Parallaxis Longitud. Lun. ad Sol. 53/ 6//.

Pro Parallaxi Latitudinis.

409519 Log—us Parallaxis Altitud. Lun.
98368 Log—us Anguli Eclipt. cum Verticali.

507887 Log—us Parallaxis Latitud. Lunæ 21/ 24//.

Verùm enimverò cùm hîc differentia Parallaxis Longitudinis ☽ in una hora evidenter decrescat, eò quod Luminaria Horizonti descendenti jam propinqua fiant; idcirco sufficit in hoc casu, hanc Parallaxin Longitudinis Lunæ ad Solem ad Quadrantem horæ ulterius, hoc est ad horam 6. min. 6 sec. 18. inquisivisse; quâ in re unus locus Lunæ eâ viâ, quam nunc trivimus, tractari potest. Luna enim ad hoc tempus invenitur in 5 gr. 3/ ♌. Coæquatus motus Latitudinis Lunæ est 2 Sexag. 51 gr 38/ 29// Anomalia ☽ coæquata 1 sexag. 19 gr. 11/38//. Latitudo Lunæ septentrion 43/33// Ascensio R. Lunæ 127 gr. 37/. Declinatio Sept. 19 gr. 46/. Distantia à meridie 91 gr. 34/: & distantia à puncto descendente in 19 gr. 2/ ♊. 16 gr. 1/. Quamobrem datur Altitudo Lunæ hoc tempore 10 gr. 49/ 30// quæ citra errorem etiam Altitudin. ☉ applicari potest. Proinde exsistit Parallaxis ☉ 2/ 56//. Lunæ 59/ 27//. Parallaxis Altitudin. à ☉ 56/ 31. Angulus Eclipticæ cum Verticali 48 gr 14/. Hinc emergit parallaxis Longitud Lunæ ad Solem 37/ 39//. & Parallaxis Latitud. Lun. ad Sol. 42/ 9// Cùm igitur hæc Parallaxis Longitudinis ☽ præcisè congruat evectioni Lunæ motus enim horarius Lunæ datur 30/ 7//, quid 15/ temporis? Resp.

7/32//

7/32//: quæ motui horario Lunæ addita efficiunt 37/39// æqualia Parallaxi Longitudinis ☽: ideoq; colligo jam intervallum inter veram & visam ☌ à me rectè esse adinventum, videlicet 1 hor. 15/: quod intervallum additum tempori veræ ☌ Luminarium ostendit tempus apparens visæ maximæ Eclipsis.

H.	M.	S.	
4	51	18	Tempus veræ ☌ Lum. sup. *cap. 2.* inventum.
1	15	0	Intervallum inter veram & visam ☌ add.
6	6	18	Tempus visæ maximæ Eclipsis ☉ Athenis.

Continuatio reliquorum duorum Exemplorum.

In Aractensi Eclipsi ☉ ad investigandam Parallaxin Longitudinis & Latitudinis Luminarium retro per unam horam ad ☌ veram, datur locus ☉ ad tempus illud 7 gr. 59/ ♒. A.R. ☉ 310 gr 25/. Distantia à medio cœli 54 gr. 10/. Declinatio Australis 18 gr. 23/. Distantia à puncto Ascendente 54 grad. 1/. Ergo ex hisce tribus 1 ex distantia poli & Horizontis 54 gr. 2. Ex excessu Declin. ☉ supra Quadrantem 108 gr. 23/. 3. Ex distantia ☉ à Meridiano 54 gr 10/, elicitur Altitudo Luminarium 15 gr 19/. Angulus Eclipticæ cum Verticali 62 gr. 11/30//. Parallaxis ☉ 2/54//. Lunæ 59/41//, in semidiametris 55, 49/. Parallaxis Altitudinis ☽ à ☉ 56/47//. Parallaxis Longitud ☽ ad ☉ 26/30//. Latitudinis ☽ ad ☉ 50/13//. Cùm igitur motus ☽ horarius verus detur 37/4// argumento est visam ☌ Luminarium nondum per unam horam à vera abesse. Proinde eadem Parallaxis Longitudinis & Latitudinis ☽ investigetur etiam ad tempus veræ ☌ Luminarium, ad quod ☉ extitit in 8 gr. 1/ ♒. AR ejus fuit 310 gr. 27/. Distantia à Meridiano 39 gr. 10/. Punctum Oriens 2 gr 3/ ♈. Distantia à puncto signi Orient 54 gr. 2/. Declinat. ☉ 18 gr 23/. Hinc emergit Altitudo Luminarium 24 gr. 12/. Parallaxis ☉ 2/45//: Lunæ 56/35//. Parallaxis Altitudinis ☽ à ☉ 53/50//. Angulus Eclipticæ cum Verticali 56 gr. 31/. Parallaxis Longitud. ☽ ad ☉ 29/47//. Parallax Latit. ☽ 44/54//. Visus motus horarius ☽ 35/16//. Differentia inter Parallaxin Longitudinis ☽ ad 1 horam ante ☌ veram & verum motum horarium ☽ est 5/34//. Hinc emergit inter veram & visam ☌ intervallum 50/32// ad quod tempus datur evectio ☽ à ☉ 27/0//. & ipsa Parallaxis Longitudinis ☽ ad tempus visæ ☌ Luminar. 27/0//. Unde tempus visæ ☌ rectè determinatum esse arguitur.

H. M.

H.	M.	S.	
9	23	22	Tempus veræ ☌ Lum. sup. inventum.
	50	32	Intervallum inter veram & visam ☌ subtr.
8	32	50	Tempus visæ ☌ ☉ & ☽ & maximæ Eclipsis.

In tertio exemplo defectionis ☉ ad annum Christi 1645 inquiro primùm Parallaxin Longitudin. & Latitud. ☽ ad tempus veræ ☌ Luminarium: ubi locus eorum existit in 28 gr. 30/ ♌. Declinatio ☉ 12 gr. 2/ 10//. Distantia à medio cœli 8 gr. 30/ 30//. Distantia poli & Horizontis 34 gr. 6/. Datur hinc Altitudo Luminarium supra Horizontem 45 gr. 38. Distantia ☉ à puncto Orientis 77 gr. 3/. Angulus Eclipticæ cum Verticali 76 gr. 24/ Parallaxis Longitud. ☽ ad ☉ 9/ 39//. Parallax. Latit ☽ ad ☉ 39 55//. Cùm igitur hîc Longitudinis ☽ Parallaxis nondum exæquet medietatem motus horarii veri ☽, colligo intra semihoram fieri copulam veram & visam Luminarium. Quamobrem inquirenda est etiam Parallaxis Longitudinis & Latitudinis ☽ ante semissem Conjunctionis veræ, ubi datur Complementum Declin. ☉ 77 gr. 57/ 25//. Distantia ☉ à Merid. 1 gr 2/. Altitudo Luminarium supra Horizontem 46 gr. 8/. Angulus Eclipticæ cum Verticali 70 gr. 24/. Parallaxis Longitud ☽ ad ☉ 13/ 39. Latitudinis ☽ 38/ 41//. Motus horarius ☽ verus datus fuit 30/ 59// visus verò emergit 26 59/. Differentia inter Parallaxin Longitud. ☽ ante semissem ☌ veræ, & motum horarium verum, est 17/ 20//. Proinde intervallum inter veram & visam copulam Luminarium resultat 21/ 27//, ad quod tempus datur evectio ☽ 11/ 5//. & Parall. Long. ☽ itidem 11/ 5//.

H.	M.	S.	
12	34	7	Tempus veræ Synodi Luminar.
	21	27	Intervall. inter veram & visam ☌ subtr.
12	12	40	Tempus visæ ☌ Luminar. & maximæ Eclips. ☉ ad meridianum Uraniburgicum.

CAPUT V.

De æstimanda quantitate Eclipsis Solaris & Lunaris, juxta digitos Eclipticos digitorumq; scrupula.

HActenus in duobus præcedentibus capitibus de Parallaxi Longitudinis ac Latitudinis ☽ investiganda, quæ tantùm Solares concernit Eclipses, actum fuit; jam verò ad utriusq; Luminaris Eclipsigra-

pſigraphiam revertimur, & modum digitos vel puncta Ecliptica inveſtigandi tam in defectione ☉ quàm ☽ conjungimus. Nam ex Theorica Planetarum notum eſt, quod Luminarium diameter, ceu As & integrum quoddam, ab Aſtronomis, ad determinandam Eclipſium ☉ ac ☽ magnitudinem, diſtribuatur in partes 12, quæ nonnulli Puncta, alii uncias ſeu duodecim diametri partes, pleriq; autem digitos vocant.

Quod igitur primùm Obſcurationes ☉ attinet, in illis tempore viſibilis ☌ rectè conſtituto, atq; , ut decet, æquato, cognitoq́; intervallo inter veram & viſam Synodum, primùm Latitudo ☽ vera in ſcrupulis primis ac ſecundis per coæquatum motum Latitudinis ☽ tempori viſibilis ☌ competentem *ex Tabulæ vera Latitud.* ☽ *ſub. lit. O.* inquiratur: Deinde quoq; Parallaxis Latitudinis ☽ ad idem tempus in promtu ſit. Coæquatus verò motus Latitudinis ☽ acquiritur, ſi evectioni ☽ ad intervallum inter veram ac viſam ☌ addatur etiam motus æqualis ☉, ſiq́; is motus cum evectione ☽ aggregatus adimatur vel addatur coæquato motui Latitudinis ☽, prout viſa ☌ vel præcedit vel ſequitur veram. Parallaxis autem Latitudinis ☽ ſemper Latitudini Lunæ ſeptentrionali veræ eſt aufferenda, Meridionali Latitudini veræ addenda, nobis ſcilicet omnibus, qui à ſecundo Climate Septentrionali usq; ad ultimum porrigimur, & Eclipticam infra verticem ad Meridiem intuemur: reliquis autem modo contrario Parallaxis Latitudinis ☽ veræ Latitudini ☽ Septentrionali eſt addenda & Meridionali auferenda: ſic enim relinquitur viſa Latitudo ☽ ad tempus viſibilis ☌ Luminarium, quæ retinebit denominationem majoris numeri, vel in Parallaxi Latitudinis ☽, quæ nobis Lunam in meridiem projicit, & ideo Auſtralis eſt, vel in Latitudine ipſa Lunæ vera, ſive Septentrionali ſive Auſtrali. Itaq; de Solaris obſcurationis magnitudine judicium ferendum eſt ex viſa Latitudine ☽ atq; aggregato ſemidiametrorum Solis & Lunæ: ſi enim viſa Latitudo Lunæ eſt minima, ita ut centra Luminarium ſibi invicem videantur propinquiſſima, tunc accidit maxima obſcuratio ☉, ſicut paulò poſt in prima Eclipſi ☉ tale exemplum occurrit, ubi viſa Latitudo ☽ nondum unum minutum complet, unde & omninò totalis Eclipſis ☉ fuit, quæ initio belli Peloponneſiaci accidit: At ſi Latitudo ☽ viſibilis ad aliquot minuta excreverit, ita tamen ut non ſuperet ſummam Semidiametrorum ☉ & ☽, tunc ſaltem partialis habenda eſt Eclipſis ☉. Tempus autem obſcurationis in digitis eorumq́; ſcrupulis elicitur quando Semidiametri Luminarium correctæ in unam conjiciuntur ſummam: ſiquidem hîc obſervandum eſt, quod magiſter

restituti motus Luminarium Christianus S. Longomontanus Semidiametrum ☽ in elevatione poli à 50 ad 74 gradus, ob aëris inæqualem temperiem, in novilunio Ecliptico decrescere; in plenilunio autem excrescere deprehenderit: ideoq; consulenda est Tabella infra scripta, ex qua Semidiameter ☽ tam in interlunio quàm plenilunio Ecliptico, intra has datas Latitudines locorum, secundum notam subtractionis vel additionis, prius limitanda, & postea cum Semidiametro ☉ conjungenda est. Hinc & Kepplerus huic observationi, in *Tabulis Rudolphinis*, suffragatur, inquiens: *Et fortè aëris Lunaris tanta est altitudo, ut soliditas globi (Lunaris) demonstrativa circumcirca per eum uno scrupulo vel sesqui augeatur, vel etiam majori, pro diversitate aëris sublunaris.* Postea visa Latitudo ☽ à summa semidiametrorum ☉ ac ☽ detrahatur, & relinquitur pars deficiens. Hinc ex tali proportione emergunt digiti Ecliptici: qualium totum Luminare, vel tota diameter obscurati Luminaris æstimatur, e. g. duodecim digitorum, talium est pars deficiens, quæ in Eclipsibus Solaribus raro duodecim superat digitos: quocirca quando pars deficiens per diametrum Solis obscurati dividitur ex Tabula Sexagesimorum, & quotus in duodecim partes ducitur, tunc relinquuntur quæsiti digiti Ecliptici cum suis scrupulis primis & secundis.

In Eclipsi autem ☽ cum anomalia Lunæ coæquata ex *Tabula Semidiametrorum, sub lit* N. depromuntur Semidiameter ☽ atque umbræ: ex eadem etiam cum anomalia ☉ variatio umbræ excerpitur, semper auferenda à Semidiametro umbræ, ut ea limitata evadat, quæ cum Semidiametro ☽ ex Tabula subjecta prius limitata in unam conjicitur summam: à summa Latitudo ☽ vera deducatur, & relinquitur pars deficieus, quæ divisa per integram limitatam Latitudinem ☽, & productum in duodecim ductum, exhibebit duodecim digitos Eclipticos.

Tabella mutationis Semidiametri Lunæ in Eclipsibus ☉ ac ☽.

Elevatio poli à 50 grad. ad 74.		0 50	0 53	0 56	0 59	0 62	0 65	0 69	0 74
		′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″	′ ″
Semidiameter ☽ in Eclipsi	☉ Subtr.	0.50	2. 0	3.30	4.30	5.15	5.45	6. 0	6.20
	☽ addend.	0 34	1.20	2.20	3. 0	3.30	3.50	4. 0	4.12

Conti-

Continuatio Eclipsium ☉.

In prima Eclipsi ☉ ad annum M. 3519 data est ad tempus visibilis ☌ Luminarium Parallaxis Latitudinis vergens in Austrum, ad Latitudinem 38 gr. Boream. 42′ 13″.

Coæquatus motus Latitudinis ☽ ita colligitur.

′	″	
37	39	Evectio ☽.
3	5	Motus ☉ ad intervall. 1 hor. 15′.
40	44	Addenda coæquato motui ☽ ad tempus veræ ☌.

Sex.	°			
2	51	2	38	Coæq. mot. Latitud. ☽ ad tempus veræ ☌.
2	51	43	22	Coæquat. motus Latit. ☽ ad tempus visæ ☌ ☉ & ☽.

Cum hoc elicitur vera Latitudo ☽ *ex Tabula* 0 43′ 8″. Sept.

′	″	
43	8	Latitudo ☽ Sept. vera ad tempus visæ ☌.
42	13	Parallaxis Latitud. ☽ vergens in Austrum.
0	55	Visa Latitudo ☽ Septentrionalis.

Semidiametri Luminarium.

☉		☽	
15	9	16	6
16	6		

31	15	Aggregatum Semidiametrorum.
0	55	Visa Latit. ☽.
30	20	Pars deficiens in scrupulis.

Diameter ☉, duplicando Semidiametrum ☉, 15. 9″ evadit 30′ 18″ Cum igitur pars deficiens coincidat cum diametro ☉ obscurati, nulla hîc opus est divisione, sed hanc Eclipsin ☉ fuisse integram, hoc est, duodecim digitorum, & proinde totalem, aspectuq; terribilem, manifestum est, ita ut & stellæ primæ magnitudinis, utpote Arcturus, spica ♍, Cor ♌, item ♀, facilè circa tempus hujus maximæ Eclipsis videri potuerint. Centralis enim fuit copula, Lunaq; totum corpus Solare obscuravit. Petavius, *lib. 8. de doctrina temporũ, pag. 792.* tantùm ponit digitos Eclipticos decem, min. 25. Calvisius autem undecim & 20. min: Restitutus verò motus Luminarium & exactus Parallaxis Latitudinis ☽ calculus planè totalem ☉ obscurationem ostendit.

In altera Eclipsi ☉ ab Albategnio anno Christi 901 Aractæ obser-vata, inventus fuit motus horarius verus 32/ 4//. Differentia Parallaxis Longitudinis datur 3/12//: Hinc emergit visus motus horarius ☽ 35/16// & distantia Parallaxis Longitudinis ☽ ante ☌ veram à motu horario vero 5/34//, quæ divisa per motum visum horarium ☽ dant 9/28//. cujus temporis complementum, videlicet 50/32//. est quæsitum intervallum inter veram & visam ☌ Luminarium subtrahendum à tempore veræ copulæ, ita ut tempus visibilis maximæ Eclipsis ☉ acciderit Aractæ hora 9. min. sec. 50. ante meridiem; ad quod tempus datur evectio ☽ 27/0//, & Parallaxis Longitud. ☽ etiam totidem minutorum 27/0//. Coæquatus motus Latitudinis ☽ ad idem tempus invenitur 2 sexag. 48 gr. 28 23//. Latitudo ☽ vera Septentr. 59/53//. Parallaxis Latitudinis ☽ 49/36//. Latitudo ☽ visa Sept. 10/17//. Semidiameter ☉ 15/25//. Semidiameter ☽ 16/47//. Aggregatum Semidiametrorum 32/12//. Pars deficiens in scrupulis 21 55. Quæ divisa per diametrum ☉ 30/ 50// exhibet 42 gr. 38/ 55// qui ducti in 12 partes efficiunt digitos 8 gr. 31/47//. Proinde partialis fuit Eclipsis, & paulò minus dodrante diametro Solis obscuratum fuit: id quod cum Muhammedis Aratensis animadversione antè recitata satis exactè convenit.

In tertia Eclipsi ☉ ad annum Christi 1645 diem 11 Augusti supputata inventus est motus horarius ☽ verus 30/ 59//. Differentia Parallaxium Longitudinis ☽ 4/0//. Hinc evadit motus horarius ☽ visus 26/59. Differentia inter Parallaxin Longitud. ☽ & motum horarium verum est 17/20//. quæ divisa per motum horarium ☽ visum suppeditat in tempore 38/33//. cujus complementum, quod est 21/27//, est intervallum inter veram ac visibilem ☌ Luminarium subtrahendũ à tempore veræ ☌ ita ut Uraniburgi hæc visibilis ☌ futura sit hora 12. min. 12 sec. 40. Ad hoc tempus invenitur evectio ☽ 11/5//. Parallaxis Longitud. ☽ itidem 11/5. Parallaxis Latitudinis ☽ vera datur 39/ 21//. Coæquatus motus Latitudinis ☽ ad tempus visibilis ☌ excerpitur 0 sex 9 gr 41/ 9//. Latitudo ☽ vera Septentr. 50/24//. & visa Latitudo ☽ etiam Septentr. 11/3//. Semidiameter ☉ est 15/ 6//. ☽ verò 16/ 23//, quæ ratione Latitudinis loci 55 gr. 54. ex præmissa Tabula correcta relinquitur 12/53//. Hinc Aggregatum Semidiametrorum existit 27/ 59//. & pars deficiens 16/ 56// quæ per diametrum ☉ 30/12// divisa efficit 33 gr. 38/ 32// qui quotus in 12 puncta ductus præbet magnitudinem Eclipsis ☉ 6 digitor. 43/42//.

Exempla Lunarium Eclipsium.

Paradigma primæ Eclipsis Lunaris, quæ accidit anno M. 3782. die 22 Junii, feria 4. hor. 8. min. 25. sec. 56. ad meridianum Thessalonicensem, suppeditavit coæquatum motum Latitudinis ☽ 5 sex. 56 gr. 50/8//, unde Latitudo ☽ Australis resultat 16/32//. Coæquata Anomalia ☽ data 5 sexag. 22 gr. 5/. Suggerit Semidiametrum ☽ plenæ 15/ 30//. Semidiametrum umbræ 43/21//. Anomalia ☉ o sex. 21 gr. dat adhuc variationem umbræ 1// subtrahendum, ita ut semidiameter umbræ correcta sit 43/ 20//. & ideo Aggregatum Semidiametrorum 58/50//. à quo subtracta Latitudo ☽ Australis relinquit partem deficientem 42/18//. Cùm igitur hæc superet diametrum ☽ quæ est 31/ 0//, non saltem est totalis Eclipsis, sed etiam est cum mora in umbra conjuncta, & major est duodecim digitis: nam primùm 3 /detracta à 42/18/, relinquunt adhuc 11/18//, quæ divisa per integram diametrum ☽ 31/0// efficiunt gradus 21. min. 52 quod productum per 12 multiplicatum ostendit digitos 4 & 22/, qui conjuncti cum prioribus 12 quantitatem hujus defectionis Lunaris 16 digitorum 22 minutorum faciunt.

In Eclipsi ☽ ad annum Christi 1601. diem 29. Novemb. coæquatus motus Latitud. ☽ datus est 2 sex. 54 gr. 0/ 10//; ideo Latitudo ☽ vera Septentrionalis etiam datur 31/18//. Semidiameter ☽ datur 17/18//, correcta verò 19/38//. Semidiameter umbræ per variationem limitata 46/29//. Aggregatum Semidiametrorũ 66/7//. Pars deficiens 34/49// quę divisa per diametrum ☽ 39/16// exhibet Quotum 53 gr. 12/1//, qui in 12 ductus constituit digitos Eclipticos 10. min. 38. sec. 24. inter quem calculum correctum & Tychonicum parum interest: sicut ex utriusq; collatione apparet. Nam & Tycho tot ponit digitos: in minutis verò exigua est discrepantia.

Deniq; in totali Eclipsi ☽ quæ ingruet die 4 Aprilis Anno Christi 1642 inventus est motus Latitudinis coæquatus o sex. 1 gr. 53/44//. elicitur ergo Latitudo ☽ vera S.A 9/54//. Semidiameter ☽ 16/24//. Correcta autem 18/44//. Penumbra terræ 44/44/ limitata per variationem. Aggregatum Semidiametrorum existit 63 28// & pars deficiens 53/34//, à quibus si diameter ☽, quæ est 37/28//, subtrahatur pro 12 digitis, relinquuntur adhuc 16/6//: ea divisa per integram diametrum ☽ dant 25 gr. 47/. & ducta in 12 augent adhuc quantitatem hujus obscurationis ☽ 5 digitis 9/24//. Ita ut digiti Ecliptici hujus Lunaris defectus futuri sint 17. min. 9. sec. 24.

CAPUT VI.

De Eclipsium Luminarium principio, fine, temporeq́; durationis determinando, unà cum explicatione quarundam apparentiarum circa easdem.

CUm in superioribus duobus capitibus de Eclipsibus Solaribus, quæ ad explicationem earum faciunt, sepositis interea Lunaribus, dictum fuerit, ideoq́: secus atq; initiò Solarium Eclipsium rationem Lunarium præposuimus. At quia nunc iterum utrasq́; conjungimus, iccirco priori modo rursus insistemus, & de iis, quæ ad Eclipsium Lunarium durationem investigandam spectant prius agemus: postmodum etiam præcepta ad Eclipses Solares pertinentia subjungemus.

Itaq; in Lunari Eclipsi partiali primùm summa Semidiametrorum ☽ & Umbræ in scrupula secunda resolvatur, hæc scrupula secunda quadrentur, hoc est, in se ducantur vel multiplicentur: deinde etiam Latitudo ☽ sic resoluta quadretur, & quadratum Latitudinis ☽ à quadrato Semidd. ☽ & Umbræ subtrahatur: Sic enim relinquitur quadratum, cujus radix ostendit spacium ☽ in propria Orbita, quod ea ab initio Eclipsis ad medium, vel à medio ad finem decurrit, & nomen scrupulorum ἐμπτώσεως, hoc est, incidentiæ vel casus accipit. Proinde hæc scrupula incidentiæ vel casus divisa per motum horarium exhibent tempus incidentiæ. Hoc tempus incidentiæ de tempore mediæ Eclipsis detractum, initium ejus, additum verò ad tempus mediæ Eclipsis ostendit finem Eclipsis.

In totali verò Eclipsi ☽ cùm initium totius obscurationis ☽, vel rursus initium ἀναπληρώσεως seu emersionis ☽ ex umbra [quod tempus dimidiæ moræ in umbra appellamus] cognoscendum sit: Iccirco accipienda est primùm differentia inter Semidiametrum ☽ & Semidiametrum umbræ terræ, hæc differentia resolvenda in scrupula & in se ducenda, vel quod idem est. quadratum ejus investigandum: Porrò ab hoc numero quadrato, auferendus est, ut prius, quadratus numerus Latitudinis ☽, & residui numeri extrahenda radix, quæ conversa in scrupula prima & secunda, divisaq; per motum horarium ☽ suppeditat tempus dimidiæ moræ ☽ in umbra. Quocirca id subtractum à tempore mediæ Eclipsis, manifestat tempus totalis obscurationis Lunæ. Idem tempus dimidiæ moræ ☽ in umbra ad tempus mediæ Eclipsis additum, tempus emersionis ☽

ex to-

ex totali umbra & recuperationis Luminis monstrat. Principium autem & finis incipientis desinentisq; Eclipsis investigatur ut ante de partiali ☽ Eclipsi dictum, Quando verò initium Eclipsis à fine subducitur, tota duratio innotescit. Eadem quoq; praxis per præceptum *Tabb. Reinholdi 52. & 63.* perficitur, cujus demonstrationem vide apud Copernicum, *lib. 4. Revolut. cap 32.*

In Solari Eclipsi, quia ea rarissimè est totalis, sic proceditur: Accipiatur Latitudo ☽ visa ad tempus visibilis ☌ ☉ & ☽, eaq; in scrupula secunda convertatur & quadretur: quadratum hoc à quadrato aggregati Semidiametrorum ☉ & ☽ auferatur, & residui numeri radix [quæ itidem nomen scrupulorum incidentiæ vel casus sortitur] per motum horarium ☽ visum dividatur: sic enim obtinebis tempus incrementi deliquii Solis, vel tempus incidentiæ, illudq́; spacium, quod ☉ ab initio ad medium obscurationis suæ decurrit: idem quoq; spacium absq; evidenti errore medio Eclipsis ☉ applicari potest, & finis ejusdem habebitur. Idem tempus incidentiæ duplicatum totam durationem exhibet. Si verò accuratiùs spacium illud inter medium & finem Eclipsis indagare velis, necesse est ut ad modum antè dictum Parallaxin Longitudinis ☽ ad tempus mediæ & finis Eclipsis ☉ conquiras, ejusq́; differentiã horario motui ☽ applices, ut visum obtineas, per quem eadem radix quadrata vel scrupula incidentiæ dividantur; sic enim exactum tempus recuperationis Luminis ☉, quod à medio ad finem Eclipsis, prodibit, quemadmodum & in *Præcepto 63. Tabb.* Reinholdi inculcatur. Quamobrem tempus initii Eclipsis ☉ de tempore finis detractum tempus durationis Eclipsis exhibebit.

Hisce nunc addimus aliquot Regulas ad apparentias Eclipsium, præsertim Solarium, rectè intelligendas & prædicendas facientes.

In parvis ☉ Eclipsibus potest fieri, ut Luminare diei in signis Ascensionum rectiorum, & Horizonte ortivo, vel in ipso vertice, vel etiam paululùm infra verticem versùs sinistram incipiat obscurari, & ab eadem plaga inferius lumen recuperet, Lunâ scil. ad ♑ properante: contrà circa Horizontem occiduum Lunâ à ♌ in Septentrionem delabente in signis rectiorum Descensionum, potest ☉ vel in imo margine, vel paulò superius ad sinistrum eclipsari, & rursus impleri lumine ab eadem plaga superius. His etiam consimilia possunt accidere circa nonagesimum gradum, ob magnam Parallaxium Latitudinis ☽ varietatem. Ordinariè autem fit principium Eclipsis ☉, in nostro quidem hæmisphario, à dextris

à dextris, & finis à parte Orientis ad sinistram: in Eclipsi verò Lunæ ordinariè fit contrarium: qua de re pluribus disserit Kepplerus, *in Optic. Astron. parte, fol. 411. & seqq.*

Quod verò non omnes totales ⊙ Eclipses adeò profundarum sint tenebrarum, ut diem in noctem convertant, & in cœlo stellas aspectui nostro detegant, facit haut dubiè materia illa crassa Solem in propria sede sæpe circumstans, quæ interdum circumfusa radiis Solaribus resplendet, & tantum luminis relinquit, ut mera nox pro die existere nequeat. Sed quando materia illa abest, & aer circa Solem purus & limpidus in talibus Solis Eclipsibus existit, diem in meram noctem abire, & Stellas interdiu conspici posse necesse est.

Sic etiam in Eclipsibus Lunaribus totalibus, illi, qui vel acie visus sunt præditi, vel per Telescopium Lunam inspiciunt, asserunt Lunam rubore satis claro per integrum totalis obscurationis tempus manere conspicuum, ita ut nolint credere, totam Lunam fuisse eclipsatam. Verùm enimverò rubor iste non à proprio ☽ lumine proficisci potest: cùm videamus eam, quando vertici appropinquat, è conspectu nostro plane amitti; nec est à radiis Solis per corpus Lunæ transmissis, cùm tota ☽ possideat corpus opacum, sed est à claritatis umbræ telluris à Sole illuminatæ ad Lunam repercussu, cujus claritatis minimam partem umbra ☽ absorbet. Et sic censent Galilæus, *in nuncio siderio*, & Kepplerus, *in Astron. parte optic. fol. 301.* & *in Epitome Astronom. lib. 6. pag. 870.* Ad præsagiendum autem colorem in Eclipsibus Lunaribus, sciendum est, quod ☽ tota deficiens in Altitudine magna faciat tenebras valde obscuras, unde quasi cinerea & subnigra apparet, præsertim quando est Apogæo vicinior: contrà circa Perigæum, & quando ad profunditatem Horizontis inclinat, sangvineo colore tincta est & clarè rubere videtur.

Colores Solarium Eclipsium, quæ raró sunt totales, ob ante dictam caussam & materiam Soli circumstantem, quæ quandoq; adest quandoque abest, non adeò certò prænunciari possunt, utut in Alphonsinis Tabulis extet Tabella, ex qua de coloribus Solarium Eclipsium nonnulli judicant. Cùm enim hoc judicium rata certitudine destituatur, nihil certi de coloribus Eclipsati Solis definiri potest.

Continuatio calculi trium Eclipsium Lunarium.

In prima Eclipsi ☽ aggregatum Semidiametri ☽ & umbræ datur 58. 50 min. quod efficit scrupula secunda 3530. quorum Quadratum e

124609[illegible]

12460900. Latitudo ☽ Australis inventa est 16/32// cujus scrupula secunda sunt 992 quorum quadratus numerus est 984064.

12460900 Quadrat. Aggreg. Semidd. ☽ & umbræ terræ.
984064 Quadrat. Latitud. Lunæ.
11476836 Residuum quadrat. cujus radix est secundum vulgarem Arithmeticam operando 3388. quæ in scrupula prima & secunda conversa, dant scrupula incidentiæ seu casus 56/28//. Motus horarius ☽ est 28/24// pro una hora: Per quem si scrupula incidentiæ dividantur emergit tempus incidentiæ 1 hor. 59/18//. Cùm autem hæc ☽ Eclipsis sit totalis, iccircò etiam tempus dimidiæ moræ in umbra erit investigandũ.

43 20 Semidiameter umbræ terræ.
15 30 Semidiameter ☽.
27 50 Residuum Semidd quod efficit 1670 scrupula secunda, quorum quadratus est 2788900
984064 Quadrat. Lat. ☽.
1804836 dat Radicem 1343. & scrupula moræ dimidiæ 22/23//, quæ itidem divisa per motum horarium ☽ ostendunt tempus dimidiæ moræ in umbra 47/17//. Tempus igitur initii & finis Eclipsis ☽ ita patescit.

H.	M.	S.	
8	25	56	Tempus mediæ Eclips. ☽ apparens ad Merid. Thessalonic.
1	59	18	Tempus incidentiæ.
6	26	38	Tempus initii Eclipsis.
10	25	14	Tempus finis Eclips. ☽.

H.	M.	S.	
8	25	56	
	47	17	Tempus dimid. moræ in umbra.
7	38	39	Initium totalis obscurationis ☽, quo ☽ Thessalonicæ orta fuit, sed obtenebrata.
9	13	13	Finis totalis obscurationis & emersionis ☽ ex umbra.

Tota duratio Eclipsis ☽ ita innotescit.

H.	M.	S.	
10	25	14	Finis Eclips.
6	26	38	Initium Eclips.
3	58	36	Tota duratio Eclips.

Tempus occasus ☉ Thessalonicæ accidit hora 7. min 30. ubi ☽ supra Horizontē ortivum ascendit, sed ferè tota obscurata, unde eò magis milites hac prodigiosa facie ☽ territi fuerunt. Proinde non mirum, plerosq; eorum, ob ignorantiam caussæ defectus ☽, in panicum terrorem conjectos esse.

In altera Eclipsi ☽ Tychonica prodeunt scrupula incidentiæ 58/15// quæ divisa per motum horarium ☽ 33/19// efficiunt tempus incidentiæ 1 hor. 44/54// Totamq; durationem 3 horarum, 29/48//. Hinc & tempus initii ac finis Eclipsis facilè acquiri potest. Nam initium hujus Eclipsis anno 1601. die 29. Novembr. fer. 1. hora 5. 12/56// à meridie, ad Meridianum Uraniburgicum, accidit, finis verò hor. 8. 42/44//.

In tertia Eclipsi inveniuntur scrupula incidentiæ & moræ dimidiæ 62/41//. quæ divisa per motum horarium ☽ 31/2// dant tempus incidentiæ seu dimidiam durationem Ecl. ☽ 2 hor. 1/11//. & totam durationem 4 horar. 2/22//. Scrupula moræ dimidiæ evadunt 24/3//. Tempusq; moræ dimidiæ 46/30//. Ita ut ad Meridianum Uraniburgicum principium Eclipsis hujus ☽ acciderit die 4 Aprilis Anno Christi 1642. hora 12. 38/14//. Principium verò totalis obscurationis extiterit hor 13. 52/55//. Tempus autem recuperationis luminis hor. 15. 25/55//. Finis verò Eclipsis ad eundem Meridianum hor. 16. 40/36//.

Continuatio Eclipsium ☉.

In prima Eclipsi Solari inveniuntur scrupula incidentiæ 31/14//, quæ divisa per motum horarium ☽ visum 28/33// exhibent tempus incrementi deliquii 1 hor. 5/38//. quod & citra sensibilem errorem fini Eclipsis ☉ applicari potest.

H.	M.	S.	
6	6	18	Tempus visæ max. Eclips. ☉ Athenis.
1	5	38	Tempus incrementi seu incidentiæ.
5	0	40	Initium Eclips. ☉ visæ Athenis.
7	11	56	Finis Eclips. ☉.

Cùm igitur ☉ Athenis occiderit hor. 7. min. 5. ut supra vidimus, sequitur, Solem ante suum occasum nondum integrum suum lumen recepisse; quanquam propemodum insensibilis defectus extiterit.

In altera Eclipsi ☉, quæ Aractæ visa est, inveniuntur scrupula incidentiæ 30/31//. quæ divisa per visum motum horarium ☽ 35/16//, dant tempus incidentiæ 51/55//.

H. M. S.

H.	M.	S.	
8	32	50	Tempus visæ Eclipſ. ☉ Aractæ.
	51	55	Tempus incidentiæ.
7	40	55	Initium Eclipſ. ☉ visæ Aractæ.
9	24	45	Finis Eclipſ. ☉.

In tertia Eclipſi ☉, quæ apparebit A.C.1645. die 11 Auguſti, S.V. inveniuntur ſcrupula incidentiæ vel caſus 25/ 43// quæ diviſa per viſum motum horarium ☽ 56/59// relinqvunt tempus incidentiæ 57/ 11// ita ut tota duratio Eclipſis ☉ futura ſit 1 hor. 54/ 22//. & initium Eclipſis ad meridianum Uraniburgicum h. 11. min 15. ſec. 27. ante merid. Finis vero hor. 1. min. 9. ſec. 51. poſt meridiem.

Caput VII.

De Typo tam Lunarium quàm Solarium Eclipſium delineando.

PRimùm pro Typis Eclipſium ☽ in plano repræſentandis formetur linea quædam A B in 70 partes diſtributa, & ex ea ſecundum ſcrupula Aggregati Semidiametrorum umbræ & ☽ ducatur circulus C E K I L. Idem fiat cum Semidiametro umbræ terræ correcta, ex qua formeter circulus interior C D M N O. Intervallo K M vel O L reſpondeat Semidiameter ☽ apparens. Major circulus E K I L in E verſus Occidentem, in K verſus Septentrionem, in I verſus Orientem, & in L verſus Meridiem tendit. Poſtea ducatur etiam Diameter transverſalis I C E, quæ Eclipticam ſeu viam Regiam ☉ denotet. Dehinc in promtu ſit vera Latitudo ☽ ad initium, medium, & finem Eclipſis. Ex Latitudine ☽ ad medium Eclipſis in quam plagam cœli defectio ☽ cadat perſpicitur. Exprimitur quoq; Latitudo ☽ tam ad initium quam finem Eclipſis verſus illam plagam, in quam Latitudo ☽ vergit, vel in Septentrionem, vel in meridiem. Proinde adminiculo Parallelæ Latitudo ſignata ad initium ponatur verſus occaſum in puncto F, reſpectu diſtantiæ ab E: nam in hoc puncto initium defectus ☽ accidit: Simili modo finem Eclipſis in Oriente ſub puncto G ſtatuas. Deinde juncta utriusq; extremę Latitudini in F & G connectatur recta linea, quæ in H biſecetur, ubi erit punctum ☽ Latitudinem ad medium Eclipſis deſignans. Aſſumtis jam tribus punctis ſingu-

larum Latitudinum pro centris, describantur tres circelli in quantitate Semidiametri ☽ inter se æquales, quæ quidem orbes Lunare corpus ad medium & extrema tempora defectus respectu positus ad Eclipticam repræsentabunt. Quin & ducantur lineæ rectæ ex C centro in duo puncta versus occasum, videlicet in F, & versus Ortum in G. Rursus etiam in segmento circuli majoris F G quæratur media pars respectu extremorum punctorum F G, quæ signatur lit. K, & ex ejus puncto per H formetur linea diagonalis in Ecliptica I C E sese secans, ut via ☽ in sua orbita eo exactiùs exhibeatur. Hoc enim pacto idea Eclipsis ☽ in plano satis convenienter erit descripta. Pro exemplo hîc habes Typum Eclipsis ☽ totalis ad annum Christi 1642 pluresq; typi in hisce decennalibus Ephemeridibus sequentur.



In Dia-

In Diagrammate hujus Eclipsis Lunaris est Circulus exterior F K I L major, cujus Semidiameter æqualis est Aggregato Semidiametrorum &☽ Umbræ, estq; 63 min. 28 sec. Linea I C E est Ecliptica. Linea F G est orbita vel semita ☽. Circulus interior M D O N est planum umbræ supra quod ☽ fertur, cujus Semidiameter est hîc 44 S 44//. In F est Eclipsis initium, ubi Latitudo ☽ Sept. Asc. invenitur 4/1//. In H est Eclipsis medium, ubi Latitudo ☽ datur Sept. Asc. 9/54//. In puncto G est finis Eclipsis, ubi invenitur Latit. ☽ S. A. 15/48//. Quocirca in hoc schemate ☽ ab Occidentali cœli parte Boreoq; tractu umbram incurrit, & ἔμπτωσις, seu incidentia in hoc tractu incipit. Mora verò tunc, cùm extremus ☽ limbus versatur in Peripheria circuli interioris: Dimidia verò mora tunc existit, cùm Centrum ☽ versatur in H. Mora autem desiit, quando limbus ☽ incipit emergere ex circumferentia circuli interioris in N. Eclipsis vero tota desinit, quando Centrum ☽ ad G pervenit, & hunc Orientalem suum limbum assequitur. Eodem modo & reliquos Eclipsium typos formare poteris, quando juxta præcedentia præcepta Semidiametros Umbræ terræ ac ☽, nec non Latitudinem ☽ ad initium, medium, & finem Eclipsis perscrutatus es.

Secundò, ad eundem ferè modum etiam Diagramma pro typo Eclipsis Solaris figurari potest: nam ex præmissa decempeda A B capiatur magnitudo ambarum Semidiametrorum ☉ & ☽, ita ut punctum S repræsentet centrum corporis Solaris, quod & hîc obscuratur ab opaco ☽ corpore. Linea verò F S H pro Ecliptica atq; itinere Regio Solis supponatur. Deinde pro delineanda Eclipsi ☉ sint hæc tria cognita: 1. Semidiameter ☉ apparens. 2. Semidiameter apparens ☽. 3. Latitudo ☽ visa ad initium, medium, & finem Eclipsis: quibus perspectis describatur circulus I G ad quantitatem Semidiametri ☉, qui corpus Solis repræsentet: postea visa Latitudo ☽ ad initium Eclipsis signetur in puncto D, ex cujus centro etiam ad quantitatem Semidiametri ☽ orbis Lunaris educatur, prout Latitudo vel Borea vel Austrina fuerit: Visa quoq; Latitudo ☽ ad finem Eclipsis in puncto C statuatur ex quo itidem orbis ☽ priori similis delineetur: Deinde traducatur recta à D in C in cujus medio centrum corporis opaci Lunæ Solem obumbrans ponatur, orbitaq; Lunæ, quoad fieri potest, oculis subjiciatur. Dehinc porrigantur duæ lineæ à S in D & C, cum linea D S Triangulum facientes. Linea igitur C D iter ☽ apparens referat: ab I verò in S semper 6 digiti obscurati numerantur, reliqui, si plures sint, post S seqvuntur. Atq; ita breviter Schema Eclipsis ☉ satis apposité describi potest.



In præfixo igitur Schemate est Semidiameter ☉ 1 S. 15/6//, Semidiameter ☽ correcta 12/53//. Visa Latitudo ☽ Sept. ad initium Eclipsis lit. D, eo modo quo & visa Latitudo ☽ ad medium Eclipsis eruta est, 9/17//. Latitudo verò Sept. ad medium Eclipsis *supra in cap. 5.* inventa est 11/3//. Deniq; visa Latitudo Sept. ad finem Eclipsis in lit. C. invenitur 12/49//. Et digiti Ecliptici 1 S. 6 D. 43/42//, ut supra *cap. 5.* Hoc pacto etiam typi reliquarum Eclipsium tam Lunarium quàm Solarium delineari atq; absolvi poterunt, inventis scilicet & perspectis omnibus requisitis, quæ modò enumerata fuerunt.

CAPUT IIX.

De Ratione pervestigandi Conjunctiones & Oppositiones Luminarium Eclipticas.

IN Eclipsibus Lunaribus conferenda est vera ☽ Latitudo ad tempus veræ ☍ cum summa Semidiametrorum ☽ & Umbræ terræ, quæ est Luna in Apogæo existente, ad correctas Tychonicas tabulas, 58/15//: In Perigæo verò 64/20//: Nam si hæc Latitudo minor erit sum̃a SSdd. tunc haut dubiè ☽ deficiet. E. g in prima Eclipsi ☽ ad annum Mundi 3782 inventa est Latitudo ☽ Australis 16/32//. Aggregatum verò SSdd. ☽ & umbræ 58/50//. Cùm igitur aggregatum 42/ & 18// superet Latitudinem ☽, rectè colligo illam ☍ fuisse Eclipticam. Rursus in Eclipsi ☽ ad annum Christi 1601. Latitudo ☽ vera Septentr. inventa est 31/18//. Summa verò SSdd. 66/7//. Unde iterum patet, hanc Syzygiam defectum Lunæ attulisse Deniq; in totali Lunæ Eclipsi, quæ accidet anno 1642 ad diem 4 April. data est Latit. ☽ vera Sept. 9/54//. & Aggregatum SSdd. 63 28//: Hinc magnam fore Eclipsin ☽ manifestum evadit.

Quod verò Eclipses Solares attinet, operosior est modus inquirendi utrum copula Luminarium futura sit Ecliptica, nec ne: Siquidem tunc visa Latitudo ☽ ad interstitium unius horæ ante vel post ☌ veram, prout novilunium ante 90 vel post 90 Eclipticæ gradum accidit, comparanda est cum Aggregato SSdd. ☉ & ☽, quod juxta Tychonis Tabulas ferè semper est 33/ plus minus: Si enim ipsa Latitudo ☽ visa fuerit minor summa SSdd.

SSdd. ☉ & ☽, conjicio, Solem ab interpositu ☽ obſcuratum iri: Sin verò Latitudo ☽ viſa vel æqualis vel major extiterit, Solem omnis deliquii expertem fore prænuncio. Veluti in prima Eclipſi ☉ ad annum Mundi 3519 Latitudo ☽ Septentr. ante veram ☌ eſt ſaltem unius ſcrupuli primi; aggregatum autem SSdd: 31//15//. Unde perſpicitur, Solem Eclipſatum fuiſſe. In altera Eclipſi ab Albategnio anno Chriſti 901 obſervata Latitudo ☽ viſa Sept. fuit 10 17//. Summa verò SSdd 32/12//. Non igitur dubium eſt, hanc Syzygiam Luminarium fuiſſe Eclipticam. In tertia Eclipſi ☉ ad inſtantem annum Chriſti 1645. diem 11 Auguſti inventa eſt Latitudo ☽ Sept. viſa 11/3//. & Aggregatum Semidiametrorum 27/59//; quod in duplo Latitudinem Lunæ viſam ſuperat. Hinc Solem ultra medietatem ſui orbis Eclipſin paſſurum neceſſariò ſequitur.

Caput IX.

De Effectibus Eclipſium & earum ſignificationibus.

De judiciis quæ ſumuntur ex Eclipſibus paſſim Aſtrologi tradunt: Docent enim illi primùm ad tempus apparens veræ Eclipſis ☽ & viſæ Solis thema conſtruere, ex eo poſtea Dominum Eclipſis ſecundum Latitudinem loci deſiderati & ſigna quæ in Horoſcopo, medio cœli, & in loco ☽ inveniuntur inquirere, dehinc ſecundum ſignificationes hujus Planetæ, & ſecundum conſtellationes ejus judicare. Inprimis verò jubent attendere ſigna Zodiaci, in quibus locus Eclipticus exiſtit: ſiquidem diverſas regiones & civitates diverſis ſignis ſubjectas eſſe tradunt. Quæ loca igitur ſub ſigno Ecliptico comprehenduntur, iis Eclipſin ominoſam eſſe volunt. Ex poſitu etiam Luminaris deficientis, Orientalene ſit an Occidentale, ex qualitate & colore Eclipſis, ex duratione ejus, multa prædici poſſe exiſtimat Ptolemæus, *lib. 2. quadripart. cap 6* Cardanus quoq;, *in Aphoriſmis* ſuis plures adhuc addit regulas. Etenim quando gradus Aſcendentis vitæ ſignificator eſt & profectio ejus venerit ad locum Eclipſis, vel quando Hylech ad gradum loci Ecliptici applicat; vel quando Eclipſis ☉ accidit in eo gradu, in quo ☋ in radice nativitatis fuit: vel ſi Eclipſis cadat in angulum radicis, & maximè in ipſum gradum Aſcendentis, mortis periculum denunciari adſtruit. In hiſce præceptis, quicquid cum experientia, optima rerum magiſtra, conſentit, retinendum eſt; quicquid verò ei repugnat rejiciendum: Omnia enim de-

creta

creta Astrologorum non æque certis & ex ipso naturæ meditullio hau-stis rationibus perpetuisq; observationibus nituntur. In genere fida ex-perientia Philosophos & Astrologos docuit, Eclipses in Natura habere suas caussas, & simul esse signa pœnarum: hinc illi ex Eclipsibus omni-bus sub ☽ concavo, & inprimis viventibus, nec non animalibus, nih-non mali prædicunt, & quidem in frugibus è terra nascentibus sterilita-tem, è sterilitate annonæ caritatem, ex annonæ caritate famem, ex fame omnis generis difficiles morbos, ex hisce postea universalem aëris infe-ctionem: ita semper eas mutationes, quæ periculosæ sunt, seqvuntur, & contages, quæ semper perniciosæ & pæne quæ semper molestæ. Quia etiam homines Martialibus influxibus circa Eclipses contingentibus in-dulgent, iisq; cedunt; hinc & Eclipses, cædes, vastationes regionum & urbium, aliasq; calamitates designant. Breviter, si quid ominis ine-Eclipsibus tàm illis quæ supra terram quàm quæ infra eam contingunt, ad illas potissimum personas trahendas esse, cum Dn. Kepplero, assero, in quorum diem natalem illæ incidunt, præsertim si nascentibus & Luna Soli fuerit opposita vel conjuncta in eodem Eclipsis gradu; vel si talia si-gna culminaverint & orta fuerint, qualia durante Eclipsi: in hosce enim omnium promtissimè Eclipses influere posse ratio dictitat, nec experien-tia aliquod Thematum cum hoc positu collatorum refragatur: & ra.. patientium vice funguntur; Agentium verò illi, quorum geneses non ab similibus adspectibus, quales tempore Eclipsis contingunt, consp-cuæ sunt, præsertim trium superiorum, exempli gratia, ♄ni, ♃vis, ♂tis configurationibus. Quanquam ad declinandas hasce passiones anim.. semper illud distichon attendendum est:

Nullum numen abest, si sit prudentia; sed nunc
Atra minas tibi Luna creant dira omina morum.

Et alterum, cujus simile quoq; Owenus habet:

Fata regunt fatuos, sapiens dominabitur astris,
Dum se consilio, non fato, ritè gubernat.

Plura habes de effectibus Eclipsium *in Pædia Astronomica partis I. Ephe-rid. p 34. & seq.* quæ confer. Hactenus de Eclipsigraphia.

Appendix

Appendix Eclipſigraphiæ,

De ratione promtiſſime ſupputandi veram Longitudinem Latitudinemq́; ☽, nec non locum ☊ & ☋ ad quodvis tempus, ex noſtris Tabulis ſecundum Tychonicas hypotheſes & obſervationes conſtructis.

CUm in hac Eclipſigraphia pleræq; Tabulæ calculum ☽ ſecundum Longitudinem & Latitudinem, nec non locum ☊ & ☋ exhibentes contineantur, idcirco operæ precium me facturum exiſtimo, ſi & reliquas, pauciores tamen prioribus, quæ ad ſupplendum ☽ motum faciunt appoſuero: ita enim in hac Eclipſigraphia abſolutę Tabulæ motum Luminarium ad quodvis tempus, ſive ante ſive poſt Chriſtum natum, ſatis præciſe docentes, continentur, ex quibus non tantùm Eclipſes omnium ſeculorum, ſed & poſitus Luminarium ad calculos exquiſitos revocari, faſti Luminarium condi, & fundamenta Thematographię ſtrui queunt. In hac enim praxi Tirones Aſtronomiæ à ſuis præceptoribus, poſtquam doctrinam primi & ſecundi mobilis mediocriter didicerunt, exercendi ſunt, antequam ad Thematographiam, ortus & occaſus Luminarium, nec non Longitudinem diei calculendam progrediantur: quippe cognitio motus Luminarium in hiſce ſupponenda & prænoſcenda eſt. Tu igitur benevole Lector hac appendice contentus eſto, donec in tertia Ephemeridum parte reliquæ compendioſæ Tabulæ ſupputandi quinq: Erronum, ♄♃♂♀ & ☿, motus ſubſecuturæ ſunt.

Primò igitur ex Eclipſigraphia eliciendum eſt Interlunium vel Plenilunium expetito diei, ad quem locum ☽ ſcire deſidero, proximum: ad intervallum horum dierum, horarum & ſcrupulorum ex Tabb. competentibus, videlicet *ex Tabb.* Π, E, Z, A, Θ & H eliciendus eſt ſimplex motus Longitudinis ☽ à ☉, anomaliæ ☽, & Latitudinis ☽. Ex iiſdem etiam exſcribe, ſecundum traditum modum *in cap.* 2. hujus ſectionis, ſimplicem ☉ motum à medio Æquinoctio, Anomaliam ☉, Æquationem Æquinoctiorum, ut & Proſthaphæreſin ☉, atq; ex iis ſimplicem motum ☉ à vero Æquinoctio, nec non veram Longitudinem ☉ collige, eo modo ut ſupra *cap 2 ſect. 2*, dictum eſt. Dehinc ex Lunaribus Tabulis ad idem tempus medium Longitudinem ☽ à ☉, Anomaliam, & Latitudinem ☽ excerpe, atq; Longitudini ☽ à ☉ ſimplicem ☉ motum à vero Æquinoctio adde, ut prodeat Longitudo ☽ ſimplex à vero Æquinoctio. Poſtea cum

Anomalia ☽ simplice *in Tabulam Æquationis Epicyclicæ* ☽ *sub lit.* K ingredere, atq; Æquationem ☽ Epicyclicam inde exquire, quæ juxta notam subtractionis vel additionis Titulo Tabulæ applicetur tam Longitudini quàm Anomaliæ ejusdem mediæ, ut Longitudo ☽ ab Æquinoctio æquata, & Anomalia coæquata emergant; semper autem partis proportionalis pro adhærentibus scrupulis ratio habenda est, ut æquatio omnibus numeris absoluta evadat. Porrò verum locum ☉ à Longitudine ☽ ab Æquinoctio æquata subtrahe, & relinquetur distantia vera ☽ à ☉, quæ si major fuerit tribus Sexagenis, excessus supra 3 Sexagenas, vel semicirculum, distantia ☽ ab opposito loco ☉ vocanda est: Cum qua quidem distantia ☽ à ☉, vel ab ejus opposito, consule *Tabulam* F, [cui titulus est Tabula Æquationis ultimæ ☽ composita ex Æquatione Eccentricitatis & Variatione Tychonica] intrando cum ea in primam oram Tabulæ, quando distantia ☽ à ☉ nondum 1 Sexagenam & 30 grad. seu quadrantem circuli complevit, & à latere sinistro quærendo Sexagenas & gradus Anomaliæ ☽ coæquatæ, quorum graduum progressus est intra 6 & 3 gradus; unde proportio Sexagecupla in ternario numero duplicata semper manet. At in extrema Tabulæ ora, seu calce, sumenda est distantia ☽ à ☉, vel ab ejus ☍, sie ea sesquisexagenam excesserit, & Anomalia ☽ coæquata in Latere dextro Adscendente investiganda est, sic enim utroq; modo in communi angulo areæ Æquatio Eccentricitatis, quæ per partem proportionalem limitanda est, se sistet. Hæc Æquatio addita vel subtracta, juxta notam suam in fronte & calce Tabulæ expressam, à Longitudine ☽ ab Æquinoctio æquata, relinquit veram Longitudinem ☽ in propria orbita, seu elongationem ejus à vero Æqninoctio verno. Insuper fiat Reductio Longitudinis ☽ veræ in propria orbita ad Eclipticam, ut habeas verum locum ☽ ad Eclipticam reductum. Ita verò hæc Reductio absolvitur. Ad tempus propositum ad quod Longitudo & Anomalia ☽ supputata est habeas etiam in promtu Latitudinem ☽ simplicem; postea conferas simplicem Longitudinem ☽ ab Æquinoctio verno cum vero loco ☽ in propria orbita: differentiam hanc addas vel subducas simplici Latitudini ☽, prout ea respectu loci ☽ in propria orbita accrescet vel decrescet, & consequeris verum motum Latitudinis ☽. Adhæc cum vera distantia ☽ & ☉ antè cognita ingredere *Tabulam Æquationis Nodorum* ☽ *sub lit.* Σ. atq; inde æquationem Nodi borei excerpe, quam juxta monitum tituli addit. vel subtract. adde vel subtrahe à vero motu Latitudinis ☽, & sic obtinebis verum ac coæquatum motum Latitudinis ☽, quem & Argumentum

Latitu-

Latitudinis dicunt. Deniq; cum hoc coæquato motu Latitudinis ☽ intra in *Tabellam Reduction. loci veri ☽ ad Eclipticam sub lit.* T. quærendo scil. sexagenas & semisses earum in fronte & calce; residuos verò gradus in latere dextro vel sinistro, & ex area deprome æquationem loci ☽ pro reductione, quæ juxta titulum subtract. & addit. subtrahenda vel addenda est loco ☽ in propria Orbita, ut is ad Eclipticam reductus evadat.

Pro Latitudine verò ☽ ex Tabulis colligenda primùm in promtu sit coæquatus motus Latitudinis ☽, qui & Argumentum Latitudinis vocatur, & quomodo is colligendus sit paulò ante inculcatum est. Deinde cum eadem distantia ☽ à ☉, qua æquationem ☊ elicuisti, etiam scrupula proportionalia excerpe & asserva: postmodum ingredere cum argumento Latitudinis ☽ *Tabulam Latitudinis* ☽, *sub lit.* T, & ex ea Latitudinem ☽ nota, unà cum excessu. Scrupula igitur proportionalia in excessum ducta, efficiunt partem proportionalem Latitudini ☽ semper addendam, ut ea vera ad inclinationem orbitæ ☽ & Eclipticæ prodeat: quæ an Borea vel Meridionalis fuerit notæ fronti & calci Tabulæ affixæ perspicuè ostendent.

Motus autem nodorum, seu ☊ & ☋ tali via adinvenitur. 1. ad datum tempus, secundum præcepta tradita, sint in promtu simplex Longitudo ☽ à vero Æquinoctio verno, & simplex motus Latitudinis ☽. 2. Quibus cognitis, aufer motum simplicem Latitudinis ☽ à simplici Longitudine ☽ à vero Æquinoctio verno, & remanebit anticipatio nodorum media, seu medius motus ☊ 3. Per distantiam Luminarium veram *ex Tabula Æquationis* ☊ æquationem ☊ excerpe, quam contrario modo ac ipsi tituli volunt, medio nodorum motui adde vel ab eo subtrahe, atq; sic verum locum ☊ Lunam versus Boream evehentis in Zodiaco definies, cui alter nodus, quem ☋ appellant, diametraliter opponitur. Verùm & alia faciliore q; ratione calculum veri motus ☊ in Zodiaco post collectionem veri loci ☽ in propria orbita & coæquati motus Latitudinis ☽ expedire poteris, si auferas coæquatum motum Latitudinis ☽ à vero loco ☽ in propria Orbita, ita enim producetur verus locus ☊ in Zodiaco.

Hæc præcepta jam uno exemplo ad cujus similitudinem reliqua omnia formanda sunt, illustrabo. Cupio scire locum Luminarium ad meridiem Calendarum Octobris anno Christi 1642. Plenilunium medium huic diei proximum cadit in 28 Septembris, horam 5, min. 28, sec. 32. à meridie, à quo tempore meridies 1. Octobris distat per biduum, 18 horas, 31, minuta, 28 secunda, Longitudo ☉ ad tempus medium pleni-

Iunii invenitur 3 Sexag 17 gr. 11/16//. Anomalia ☉ 1 Sex. 40 gr. 53/9//. Æquatio Æquinoctiorum addenda 9/43//. Simplex motus Longitudinis ☉ pro intervallo 2 dier. 18. hor. 31/28//. est 2 grad. 43/56//. Hinc Longitudo ☉ simplex à vero Æquinoctio ad meridiem 1 Octobr. 1642. emergit 3 Sexag. 20 gr. 4/55//. Anomalia ☉ 1 Sex. 43 gr. 37/4//. quæ dat Æquationem ☉ subtrah. 2 gr. 0 16//. Unde locus ☉ verus relinquitur in 18 gr. 4/39// ♎. Ad idem tempus medium plenilunii datur Longitudo ☽ à ☉ 3 Sexag. exactè. Anomalia ☽ 4 Sex. 9 gr. 8/45//. Motus Latitudinis ☽ sexag. 3 gr. 14/53//. Pro spacio verò duorum dierum, 18 hor. 31/28// colligitur Longitudo ☽ à ☉ 33 gr. 47/27//. Anomalia ☽ o sex. 36 gr. 12/51 Motus Latitud. ☽ o sex. 36 gr. 40/11//: ita ut sit Longitudo ☽ simplex à ☉ ad merid. 1. Octob 3 sexag 33 gr. 47/27//. Longitudo ☽ simplex à verno Æquinoctio o sex. 53 gr. 52/22//. Anomalia ☽ simplex 4 sex. 45 gr. 21/36 Motus Latitudinis ☽ simplex 3 sex. 39 gr. 55/4//. Anomalia ☽ exhibet Epicyclicam Æquationem ☽ addend. 4 gr. 45/34//. ita ut Longitudo ☽ æquata ab Æquinoctio verno o sex. 58 gr. 37/56//. Anomalia ☽ coæquata vero 4 sex. 50 gr. 7/10//. Distantia ☽ ab opposito loco ☉ datur o sex. 40 gr. 33 17//. & Æquatio Eccentricitatis addenda 1 gr. 12/58//. Hinc relinquitur Longitudo ☽ in propria orbita in 29 gr. 51/ ♉. Differentia simplicis Longitudinis ☽ & in propria orbita est 5 gr. 58/32//. addenda simplici motui Latitudinis, ut is verus evadat 3 sex. 45 gr. 53/56//. Æquatio Nodorum addenda est 1 gr. 45/22//. & Scrupula proportionalia 25/48//. Hinc prodit coæquatus motus Latitudinis ☽ seu argumentum Latitud. ☽ 3 sex. 47 gr. 38/58//. & Æquatio pro Reductione ☽ ad Eclipticam 6/57// subtrahenda. Quapropter invenitur Longitudo ☽ ad meridiem primi Octobris in 29 gr 44/ ♉. qualem & Ephemeris nostra ad annum 1642 ostendit. Cæterùm coæquatus motus Latitudinis ☽ dat Latitudinem ☽ simplicem Meridionalem Ascendentem 3 gr. 40/28//. & excessum 14/0// qui ductus in scrupula proport. 25/48// relinquit p.p. 6/1// add. ut vera Latitudo ☽ ad merid. 1 Octobr. sit 3 gr. 46/29// M.A. Deniq; pro Nodis investigandis subtrahatur Argumentum Latitud. ☽ à loco ☽ in propria orbita & producitur ☊ in 12 gr. 12/ ♎. ☋ verò in signo opposito, videlicet in 12 gr. 12/ ♈. Atq; hac appendice sectionem alteram hujus Pædiæ Astronomicæ continuatæ terminamus.

Prima Tabula Syzygiarum Luminarium ante & post Natum CHRISTUM

in annis 76 expansis, qui revolutionem quatuor cyclorum ☽ efficiunt.

Anni	Dies	fer.	hor. / //	Cycl ☉	Cycl. ☽	Anni	Dies	fer	hor. / //	Cycl. ☉	Cycl. ☽
1	81	2	15.0. 58	9	5	33	87	6	17.45.56	13	18
2	100	1	12 33.39	10	6	34	106	5	15.18.37	14	19
3	89	5	21,22.17	11	7	35	96	3	0. 7. 15	15	1
4	108	4	18.54.58	12	8	36	85	7	8. 55.53	16	2
5	97	2	3. 43.36	13	9	37	103	6	6. 28.34	17	3
6	86	6	12,32.15	14	10	38	92	3	15.17.13	18	4
7	105	5	10.4. 56	15	11	39	82	1	0. 5. 51	19	5
8	94	2	18.53.34	16	12	40	100	6	21.38.32	20	6
9	83	7	3. 43.12	17	13	41	89	4	6. 27.10	21	7
10	102	6	1. 15.53	18	14	42	108	3	3. 59.51	22	8
11	91	3	10.4. 32	19	15	43	97	7	12.48.29	23	9
12	80	7	18.53.10	20	16	44	86	4	21.37. 7	24	10
13	98	6	16.25.52	21	17	45	104	4	19. 9.48	25	11
14	88	4	1. 14.30	22	18	46	94	1	3. 58.27	26	12
15	106	2	22,47.11	23	19	47	83	5	12.47. 5	27	13
16	96	7	7. 34.49	24	1	48	102	4	10.19.46	28	14
17	84	4	16.23.27	25	2	49	90	1	19.8. 25	1	15
18	103	3	13.56. 8	26	3	50	80	6	3. 57. 3	2	16
19	92	7	22.44.46	27	4	51	99	5	1. 29.44	3	17
20	82	5	7. 33.24	28	5	52	88	2	10.18.22	4	18
21	100	4	5. 6. 5	1	6	53	106	1	7. 51. 4	5	19
22	89	1	13.54 43	2	7	54	95	5	16.39.42	6	1
23	108	7	11.27.45	3	8	55	85	3	1. 28 20	7	2
24	97	4	20.16. 3	4	9	56	103	1	23.1. 2	8	3
25	86	2	5. 4. 41	5	10	57	92	6	7. 49.40	9	4
26	105	1	2. 37.22	6	11	58	81	3	16.38.18	10	5
27	94	5	11.26. 0	7	12	59	100	2	14.10.59	11	6
28	83	2	20.14.39	8	13	60	89	6	22 59.37	12	7
29	101	1	17.47.20	8	14	61	107	5	20 32.18	13	[illegible]
30	91	6	2. 35.58	10	15	62	97	3	5. 20.57	14	9
31	80	3	11 24.36	11	16	63	86	7	14.9. 35	15	10
32	99	2	8. 57.17	12	17	64	105	6	11.42.16	16	11

Anni	Dies	fer.	hor. / //	Cyc.☉	Cycl.☽
65	93	3	20 30.54	17	12
66	83	1	5. 19.33	18	13
67	102	7	2. 52.14	19	14
68	91	4	11.40 52	20	15
69	79	1	20.29.30	21	16
70	98	7	18. 2.11	22	17
71	88	5	2. 50.50	23	18
72	107	4	0. 23.31	24	19
73	95	1	9. 12. 9	25	1
74	84	5	18. 0.47	26	2
75	103	4	15.33.28	27	3
76	93	2	0. 22. 6	28	4

Secunda Pars Tabulæ Syzygiarum Luminar. ante & post Natum Christum in annis collectis quater decennovenalibus.

Anni	Dies	fer.	hor. / //	Cycl.☉
76	0	3	5. 50.14	8
152	0	6	11.40.28	16
228	0	2	17.30.41	24
304	0	5	23.20.54	4
380	1	2	5. 11. 7	12
456	1	5	11.1. 21	20
532	1	1	16.51.35	0
608	1	4	22.41.49	8
684	2	1	4. 32. 3	16
760	2	4	10.22.16	24
836	2	7	16.12.29	4
912	2	3	22.2. 42	12
988	3	7	3. 52.55	20
1064	3	3	9. 43.18	0
1140	3	6	15.33.21	8
1216	3	2	21.23.35	16

Anni	Dies	fer.	hor. / //	Cycl.☉
1292	4	6	3. 13.48	24
1368	4	2	9. 4. 1	4
1444	4	5	14.54.15	12
1520	4	1	20.44.28	20
1596	5	5	2. 34.41	0
1672	5	1	8. 24.55	8
1748	5	4	14.15. 8	16
1824	5	7	20.5. 21	24
1900	6	4	1. 55.35	4
1976	6	7	7. 45 49	12
2052	6	3	13.36. 2	20
2128	6	6	19.26.15	0
2204	7	3	1. 16. 29	8
2280	7	6	7. 6. 42	16
2356	7	2	12.56.55	24
2432	7	5	18.47. 9	4
2508	8	2	0. 37. 22	12
2584	8	5	6. 27.35	20
2660	8	1	12 17.49	0
2736	8	4	18. 8. 3	8
2812	8	7	23 58 16	16
2888	9	4	5. 48.29	24
2964	9	7	11.38.43	4
3040	9	3	17.28.56	12
3116	9	6	23.19. 9	20
3192	10	3	5. 9. 23	0
3268	10	6	10.59.36	8
3344	10	2	16 49.49	16
3420	10	5	22.40. 3	24
3496	11	2	4. 30.16	4
3572	11	5	10.20.30	12
3648	11	1	16 10.43	20
3724	11	4	22. 0. 57	0
3800	12	1	3. 51.10	8
3876	12	4	9. 41.23	16

Anni	Ær. ☾	Dies	fer.	h. / //.	Cyc. ☉
3952	3	12	7	15.31.37	24
4028	79	12	3	21.21 50	4
4104	155	13	7	3. 12. 3	12
4180	231	13	3	9. 2. 16	20
4256	307	13	6	14.52.30	0
4332	383	13	2	20.42 43	8
4408	459	14	6	2. 32.56	16
4484	535	14	2	8. 23.10	24
4560	611	14	5	14.13.23	4
4636	687	14	1	20.3. 36	12
4712	763	15	5	1. 53.50	20
4788	839	15	1	7. 44. 3	0
4864	915	15	4	13.34.16	8
4940	991	15	7	19.24.30	16
5016	1067	16	4	1. 14.43	24
5092	1143	16	7	7. 4. 57	4
5168	1219	16	3	12.55.10	12
5244	1295	16	6	18.45.24	20
5320	1371	17	3	0. 35.37	0
5396	1447	17	6	6. 25.50	8
5472	1523	17	2	12.16. 4	16
5548	1599	17	5	18.6. 17	24
5624	1675	17	1	23.56.30	4
5700	1751	18	5	5. 46.44	12
5776	1827	18	1	11.36.57	20

Tertia Pars Tabulæ.

Novilunia.

Menses	dies	fer.	hor.	/	//
1	29	1	12	44	3
2	59	3	1	28	6
3	88	4	14	12	9
4	118	6	2	56	13
5	147	7	15	40	16
6	177	2	4	24	19
7	206	3	17	8	22
8	236	5	5	52	25
9	265	6	18	36	28
10	295	1	7	20	31
11	324	2	20	4	35
12	354	4	8	48	38
13	383	5	21	32	41

Plenilunia

In quibus ☽ distat à ☉ Sexagenis tribus exactè.

Plenil.	dies	fer	hor.	/	//
1	14	7	18	22	2
2	44	2	7	6	5
3	73	3	19	50	8
4	103	5	8	34	11
5	132	6	21	18	14
6	162	1	10	2	17
7	191	2	22	46	20
8	221	4	11	30	23
9	251	6	0	14	26
10	280	7	12	58	29
11	310	2	1	42	33
12	339	3	14	26	36
13	369	5	3	10	39

Quadratura prima In qua ☽ diſtat à ☉ Sexagena una & 30. gradibus. *Quantitas ejus eſt*				
dies	fer.	hor.	/	//
7	9	9	11	1

Quadratura ultima Ubi ☽ diſtat à ☉ Sexagenas & gr. 30. *Quantitas ejus*				
dies	fer.	hor.	/	//
22	1	3	33	3

Quarta pars Tabulæ.

Diſtantia ☽æ à ☉ in diebus				
dies	Sexag.	grad.	/	//
1	0	12	11	27
2	0	24	22	53
3	0	36	34	20
4	0	48	45	47
5	1	0	57	13
6	1	13	8	40
7	1	25	20	7

Diſtantia ☽ à ☉ in horis & min.				Diſtantia ☽ à ☉ in horis & minutis			
	gr.	/	//		gr.	/	//
1	0	30	29	33	16	45	45
2	1	0	57	34	17	16	14
3	1	31	26	35	17	46	43
4	2	1	54	36	18	17	11
5	2	32	23	37	18	47	40
6	3	2	32	38	19	18	8
7	3	33	20	39	19	48	37
8	4	3	49	40	20	19	5
9	4	34	18	41	20	49	33
10	5	4	46	42	21	20	2
11	5	35	15	43	21	50	31
12	6	5	43	44	22	21	0
13	6	36	12	45	22	51	28
14	7	6	41	46	23	21	50
15	7	37	9	47	23	52	25
16	8	7	38	48	24	22	54
17	8	38	6	49	24	53	22
18	9	8	35	50	25	23	51
19	9	39	4	51	25	54	19
20	10	9	32	52	26	24	48
21	10	40	1	53	26	55	17
22	11	10	29	54	27	24	46
23	11	40	58	55	27	56	15
24	12	11	27	56	28	26	44
25	12	41	55	57	28	57	12
26	13	12	24	58	29	27	40
27	13	42	53	59	29	58	9
28	14	13	21	60	30	28	38
29	14	43	50				
30	15	14	18				
31	15	44	47				
32	16	15	16				

CALENDARIUM JULIANUM.

JANUARIVS.				FEBRVARIVS.				MARTIUS.				APRILIS.			
1	A	Circũciſ.	1	1	D	Brigitta	32	1	D	Albinus	60	1	G	Theodo.	91
2	B	Abel. Se.	2	2	E	Purif. M.	33	2	E	Simplic.	61	2	A	Mar. Æg.	92
3	C	Enoch	3	3	F	Blaſius	34	3	F	Cunigu.	62	3	B	Chriſtia.	93
4	D	Mathuſ.	4	4	G	Veronic.	35	4	G	Adrian	63	4	C	Ambroſ.	94
5	E	Simeon	5	5	A	Agatha	36	5	A	Euſebius	64	5	D	Vincent.	95
6	F	Epipha.	6	6	B	Doroth.	37	6	B	Frideric.	65	6	E	Sixtus	96
7	G	Julianus	7	7	C	Zachar.	38	7	C	Felicitas	66	7	F	Celeſtin.	97
8	A	Erhard.	8	8	D	Salom.	39	8	D	Cyprian.	67	8	G	Dionyſ.	98
9	B	Marcell	9	9	E	Apollon.	40	9	E	Prudent	68	9	A	Albinus	99
10	C	Paul. Er	10	10	F	Scholaſt.	41	10	F	Michæas	69	10	B	Ezechiel	100
11	D	Hyginus	11	11	G	Euphro.	42	11	G	Cuniber.	70	11	C	Leo Pap.	101
12	E	Satyrius	12	12	A	Severin.	43	12	A	Gregor.	71	12	D	Julius	102
13	F	Hilarius	13	13	B	Agabus	44	13	B	Erneſtus	72	13	E	Juſtinus	103
14	G	Felix	14	14	C	Valenti.	45	14	C	Eutych.	73	14	F	Tiburt.	104
15	A	Maurus	15	15	D	Fauſtin.	46	15	D	Longin.	74	15	G	Olympia	105
16	B	Marcell.	16	16	E	Juliana	47	16	E	Cyriacus	75	16	A	Cariſius	106
17	C	Anton.	17	17	F	Conſtan.	48	17	F	Gertrud	76	17	B	Anicetus	107
18	D	Priſca	18	18	G	Concor.	49	18	G	Gabriel	77	18	C	Apollon	108
19	E	Pontian	19	19	A	Sim. Ap.	50	19	A	Joſeph	78	19	D	Timoth.	109
20	F	Fab. Seb.	20	20	B	Euchar.	51	20	B	Rupert.	79	20	E	Sulpitius	110
21	G	Agneta	21	21	C	Eſaias	52	21	C	Benedic.	80	21	F	Adelar.	111
22	A	Vincent.	22	22	D	Cath. P.	53	22	D	Paulinus	81	22	G	Emanuel	112
23	B	Emeren.	23	23	E	Serenus	54	23	E	Gotfrid.	82	23	A	Georgius	113
24	C	Timoth	24	24	F	Intercal	55	24	F	Quirinus	83	24	B	Albertus	114
25	D	Conv. P.	25	24	F	Matthias	55	25	G	Annu. M.	84	25	C	Marcus	115
26	E	Polycar.	26	25	G	Victori.	56	26	A	Caſtulus	85	26	D	Cletus	116
27	F	Chryſo.	27	26	A	Neſtor	57	27	B	Jo. Frem.	86	27	E	Anaſtaſ	117
28	G	Caro. M	28	27	B	Fortuna	58	28	C	Gideon	87	28	F	Vitalis	118
29	A	Samuel	22	28	C	Macar.	59	29	D	Euſtach.	88	29	G	Sibylla	119
30	B	Hippoly.	30					30	E	Guido	89	30	A	Joſua	120
31	C	Virgiliu	31					31	F	Balbina	90				

CALENDARIUM JULIANUM.

Maius.				Junius.				Julius.				Augustus.			
1	B	Phil. Jac.	121	1	E	Nicode.	152	1	G	Theoba.	182	1	C	Vinc. Pe.	213
2	C	Athanaſ.	122	2	F	Marcell.	153	2	A	Viſit Ma.	183	2	D	Moſes	214
3	D	Inven. C.	123	3	G	Eraſmus	154	3	B	Cornel.	184	3	E	Domin.	215
4	E	Florian.	124	4	A	Quirin.	155	4	C	Ulricus	185	4	F	Ariſtarc.	216
5	F	Gothar.	125	5	B	Bonifac.	156	5	D	Anshel.	186	5	G	Oſvvald.	217
6	G	Jo. a. po.	126	6	C	Artemi.	157	6	E	Hector	187	6	A	Sixtus	218
7	A	Juvenal.	127	7	D	Paul. Ep.	158	7	F	Demetr	188	7	B	Afra	219
8	B	Stanisl.	128	8	E	Medard	159	8	G	Chilian	189	8	C	Ladisl.	220
9	C	Hiob	129	9	F	Barnim.	160	9	A	Cyrillus	190	9	D	Roman.	221
10	D	Pancrat.	130	10	G	Onufri.	161	10	B	7 fratr	191	10	E	Laurent.	222
11	E	Chriſtia.	131	11	A	Barnab	162	11	C	Pius	192	11	F	Titus	223
12	F	Gordia.	132	12	B	Blandin.	163	12	D	Henric.	193	12	G	Clara	224
13	G	Servati.	133	13	C	Cyrillus	164	13	E	Margar.	194	13	A	Hippoli.	225
14	A	Fortuna.	134	14	D	Valerius	165	14	F	Bonave.	195	14	B	Bertram	226
15	B	Sophia	135	15	E	Vitus	166	15	G	Diviſ. A	196	15	C	Adſ Mar.	227
16	C	Peregri	136	16	F	Ruland.	167	16	A	Hilarin.	197	16	D	Rochus	228
17	D	Jodocus	137	17	G	Volcma.	168	17	B	Alexius	198	17	E	Agapitus	229
18	E	Venant.	138	18	A	Homer.	169	18	C	Matern.	199	18	F	Helena	230
19	F	Sara	139	19	B	Gervaſ.	170	19	D	Ruffina	200	19	G	Sebaldus	231
20	G	Bernha	140	20	C	Regina	171	20	E	Elias	201	20	A	Bernhar.	232
21	A	Pruden.	141	21	D	Albanus	172	21	F	Daniel	202	21	B	Athanaſ.	233
22	B	Helena	142	22	E	Achatius	173	22	G	Mar. Ma.	203	22	C	Simpho.	234
23	C	Deſider.	143	23	F	Baſilius	174	23	A	Apollin.	204	23	D	Zachæus	235
24	D	Eſther	144	24	G	Jo. Bapt.	175	24	B	Chriſtina	205	24	E	Barthol.	236
25	E	Urbanus	145	25	A	Elogius	176	25	C	Jacobus	206	25	F	Ludovi.	237
26	F	Eduard.	146	26	B	Jeremias	177	26	D	Anna	207	26	G	Irenæus	238
27	G	Beda	147	27	C	7 dorm.	178	27	E	Martha	208	27	A	Gebhar.	239
28	A	Wilhel.	148	28	D	Leo	179	28	F	Panthal.	209	28	B	Auguſti.	240
29	B	Maximi	149	29	E	Petr. Pa.	180	29	G	Beatrix	210	29	C	Decol. J.	241
30	C	Wigand.	150	30	F	Paul cõ.	181	30	A	Abdon.	211	30	D	Felix Pr.	242
31	D	Petrone.	151					31	B	German.	212	31	E	Paulinus	243

CALENDARIUM JULIANUM.

September				October.				November.				December.			
1	F	Ægidius	244	1	A	Remigi.	274	1	D	O. Sanct.	305	1	F	Longin.	335
2	G	Rachel	245	2	B	Leodeg.	27	2	E	O. Anim.	306	2	G	Candid	336
3	A	Euphe.	246	3	C	Simplici.	276	3	F	Theoph.	307	3	A	Caſſian.	337
4	B	Theodo.	247	4	D	Franciſc	277	4	G	Modeſti.	308	4	B	Barbara	338
5	C	Zachari.	248	5	E	Fides	278	5	A	Petron.	309	5	C	Sabina	339
6	D	Magnus	249	6	F	Aurelia	279	6	B	Leonha.	310	6	D	Nicolaus	340
7	E	Regina	250	7	G	Spes	280	7	C	Wilibal.	311	7	E	Agathon	341
8	F	Nat.M.	251	8	A	Pelagia	281	8	D	Claudius	312	8	F	Conc.M.	342
9	G	Kunigu.	252	9	B	Dionyſ.	282	9	E	Theodo.	313	9	G	Joachim	343
10	A	Soſthen.	253	10	C	Gedeon	283	10	F	Marti.P.	314	10	A	Miltiad	344
11	B	Eobald.	254	11	D	Burchar.	284	11	G	Mart.Ep.	315	11	B	Damaſus	345
12	C	Tobias	255	12	E	Walfrid.	285	12	A	Cunibe.	316	12	C	Valerius	346
13	D	Amatus	256	13	F	Tilema.	286	13	B	Eugeni.	317	13	D	Lucia	347
14	E	Exalt.✠	257	14	G	Calixtus	287	14	C	Frideric.	318	14	E	Nicaſius	348
15	F	Nicode	25	15	A	Hedvvig	288	15	D	Leopol.	319	15	F	Abrahã	349
16	G	Euphe.	259	16	B	Gallus	289	16	E	Otmar.	320	16	G	Ananias	350
17	A	Lamber.	260	17	C	Florent.	290	17	F	Hugo	321	17	A	Lazarus	351
18	B	Ferriolus	261	18	D	Lucas	291	18	G	Heſichi.	322	18	B	Chriſto.	352
19	C	Januari.	262	19	E	Ptolem.	292	19	A	Eliſabet	323	19	C	Loth	353
20	D	Fauſta	263	20	F	Wendel	293	20	B	Amos	324	20	D	Amon	354
21	E	Matthæ.	264	21	G	Urſula	294	21	C	Obl.M.	325	21	E	Thomas	355
22	F	Maurici.	265	22	A	Cordula	295	22	D	Cæcilia	326	22	F	Theodo.	356
23	G	Joel	266	23	B	Severin.	296	23	E	Clemens	327	23	G	Dagobe.	357
24	A	Rupert.	267	24	C	Salome	297	24	F	Chryſog.	328	24	A	Ad Eva	358
25	B	Cleoph.	268	25	D	Criſpin.	298	25	G	Cathari.	329	25	B	Nat.Chr.	359
26	C	Cyprian	269	26	E	Amand.	299	26	A	Conrad.	330	26	C	Stephan.	360
27	D	Judith	270	27	F	Victoria	300	27	B	Gunthe.	331	27	D	Jo.Evan.	361
28	E	Wenceſl.	271	28	G	Sim Jud	301	28	C	Rufus	332	28	E	Innocen.	362
29	F	Michaël	272	29	A	Narciſſ.	302	29	D	Saturni.	333	29	F	Jonatha.	363
30	G	Hierony.	273	30	B	Abſolon	303	30	E	Andreas	334	30	G	David	364
				31	C	Wolffg	304					31	A	Silveſter	365

Litera Γ
Cyclus ☉ cū litera Domin.

1	GF
2	E
3	D
4	C
5	BA
6	G
7	F
8	E
9	DC
10	B
11	A
12	G
13	F F
14	D
15	C
16	B
17	AG
18	F
19	E
20	D
21	CB
22	A
23	G
24	F
25	ED
26	C
27	B
28	A

Litera Δ
Cycl. ☽ cum terminis Paſchalibus.

1	5 April.
2	25. Mar.
3	13. Apr
4	2. Apr
5	22 Mar.
6	10 Apr.
7	30 Mar.
8	18 Apr.
9	7. Apr.
10	27 Mar.
11	15 Apr.
12	4 Apr.
13	24 Mar.
14	12 Apr.
15	1 Apr.
16	21 Mar
17	9 Apr.
18	29 Mar
19	17 Apr.

Quarta Tabula Motus Æqualis Longitudinis Solis à medio Æquinoctio ſub Lit E.

Prima ejus pars in annis expanſis.					*Prima ejus pars in annis expanſis.*				
Anni	Sexag.	Grad.	/	//	Anni	Sexag.	Grad.	/	//
1	5	27	54	3	33	5	34	10	14
2	5	46	17	19	34	5	52	33	29
3	5	35	34	11	35	5	41	50	20
4	5	53	57	26	36	5	31	7	12
5	5	43	14	17	37	5	49	30	27
6	5	32	31	9	38	5	38	47	18
7	5	50	54	24	39	5	28	4	9
8	5	40	11	15	40	5	46	27	25
9	5	29	28	6	41	5	35	44	16
10	5	47	51	22	42	5	54	7	31
11	5	37	8	13	43	5	43	24	23
12	5	26	25	4	44	5	32	41	14
13	5	44	48	19	45	5	51	4	30
14	5	34	5	11	46	5	40	21	21
15	5	52	28	26	47	5	29	38	12
16	5	41	45	17	48	5	48	1	18
17	5	31	2	9	49	5	27	18	19
18	5	49	25	24	50	5	36	35	11
19	5	38	42	15	51	5	44	58	26
20	5	27	59	6	52	5	34	15	17
21	5	46	22	21	53	5	52	38	33
22	5	35	39	11	54	5	41	55	24
23	5	54	2	29	55	5	31	12	5
24	5	43	19	20	56	5	49	35	31
25	5	32	36	12	57	5	38	52	22
26	5	50	59	27	58	5	28	9	13
27	5	40	16	18	59	5	46	32	29
28	5	29	33	9	60	5	35	49	20
29	5	47	56	25	61	5	54	12	35
30	5	37	13	16	62	5	43	29	26
31	5	26	30	7	63	5	32	46	18
32	5	44	53	23	64	5	51	9	34

Prima ejus pars in an. exp.				
Anni	Sex.	Gr.	/	//
65	5	40	26	25
66	5	28	49	41
67	5	48	6	32
68	5	37	23	23
69	5	26	40	14
70	5	45	3	30
71	5	34	20	21
72	5	52	43	37
73	5	42	0	28
74	5	31	17	19
75	5	49	40	34
76	5	38	57	25

Secunda pars Tabulæ in annis expansis

Anni	Sex.	Gr.	/	//
76	0	0	20	13
152	0	0	40	26
228	0	1	0	39
304	0	1	20	51
380	0	1	41	4
456	0	2	1	16
532	0	2	21	29
608	0	2	41	41
684	0	3	1	54
760	0	3	22	6
836	0	3	42	19
912	0	4	2	32
988	0	4	22	44
1064	0	4	42	57
1140	0	5	3	9
1216	0	5	23	22

Secunda pars T in an. exp.				
Anni	Sex.	Gr.	/	//
1292	0	5	43	44
1368	0	6	3	57
1444	0	6	23	59
1520	0	6	44	12
1596	0	7	4	24
1672	0	7	24	37
1748	0	7	44	49
1824	0	8	5	z
1900	0	8	25	14
1976	0	8	45	27
2052	0	9	5	39
2128	0	9	25	52
2204	0	9	46	4
2280	0	10	6	17
2356	0	10	26	29
2432	0	10	46	42
2508	0	11	6	54
2584	0	11	27	7
2660	0	11	47	19
2736	0	12	7	32
2812	0	12	27	44
2888	0	12	47	57
2964	0	13	8	9
3040	0	12	28	22
3116	0	13	48	34
3192	0	14	8	46
3268	0	14	28	58
3344	0	14	49	11
3420	0	15	9	23
3496	0	15	29	35
3572	0	15	49	48
3648	0	16	10	0

Anni Mundi	A. Æræ Christ.	Sexag	Gr. / //
3724		0	16.30.13
3800		0	16.50 25
3876		0	17.10.38
3952	3	0	17.30.54
4028	79	0	17.51. 6
4104	155	0	18.11.18
4180	231	0	18.31.38
4256	307	0	18.51.41
4332	383	0	19.11.53
4408	459	0	19.32. 6
4484	535	0	19.52.19
4560	611	0	20.12.31
4636	687	0	20. 2.44
3712	763	0	20.52.57
4788	839	0	21.13. 9
4864	915	0	21.33.22
4940	991	0	21.53.35
5016	1067	0	22.13 47
5092	1143	0	22.34. 0
5168	1219	0	21.54.13
5244	1295	0	23.14 26
5320	1371	0	23.34.48
5396	1447	0	23.54.51
5472	1523	0	24.15. 4
5548	1599	0	24.35.16
5624	1675	0	24.55.29
5700	1751	0	25.15.42
5776	1827	0	25.35.54

Tertia pars Tabulæ.

Novilunia.				
Menſ.	Sexag.	o	′	″
1	0	29	6	24
2	0	58	12	48
3	1	27	19	13
4	1	56	25	37
5	2	25	32	1
6	2	54	38	25
7	3	23	44	49
8	3	52	51	14
9	4	21	57	38
10	4	51	4	2
11	5	20	10	27
12	5	49	16	52
13	0	18	23	16

In Pleniluniis.				
Plenil.	Sexag.	o	′	″
1	0	14.	33	12
2	0	43.	39	36
3	1	12.	46	1
4	1	41.	52	25
5	2	10.	58	49
6	2	40.	5	13
7	3	9.	11	37
8	3	38	18	2
9	4	7.	24	27
10	4	36.	30	51
11	5	5.	37	15
12	5	34	43	39

Sex.	Quadratura prima.
0	7. 16. 36.

Sex	Quadrat.ult.
0	21.49.48

Quarta pars Ta.

In diebus.			
	gr.	′	″
1	0	59	8
2	1	58	17
3	2	57	25
4	3	56	33
5	4	55	42
6	5	54	50
7	6	53	58

In horis & minut			
	o	′	″
1	0	2	28
2	0	4	55
3	0	7	23
4	0	9	51
5	0	12	19
6	0	14	47
7	0	17	14
8	0	19	42
9	0	22	10
10	0	24	38
11	0	27	6
12	0	29	34
13	0	32	2
14	0	34	29
15	0	36	57
16	0	39	25
17	0	41	53
18	0	44	21
19	0	46	49
20	0	49	16
21	0	51	44
22	0	54	12
23	0	56	40
24	0	59	8
25	1	1	36
26	1	4	4
27	1	6	31
28	1	8	59
29	1	11	27
30	1	13	55
31	1	16	23
32	1	18	41
33	1	21	19
34	1	23	47
35	1	26	14
36	1	28	42
37	1	31	10
38	1	33	38
39	1	36	6
40	1	38	34
41	1	41	2
42	1	43	29
13	1	45	57
44	1	48	25
45	1	50	5[illegible]
46	1	53	21
47	1	55	4[illegible]
48	1	58	1[illegible]
49	2	0	4[illegible]
50	2	3	1[illegible]
51	2	5	4[illegible]
52	2	8	[illegible]
53	2	10	3[illegible]
54	2	13	4[illegible]
55	2	15	3[illegible]
[illegible]	2	17	5[illegible]
57	2	20	2[illegible]
58	2	22	5[illegible]
59	2	25	2[illegible]
60	2	27	5[illegible]

Quarta Tab. Anom ☉

Prima ejus pars in an. exp.

An.	Sex.	Grad.	/	//
1	5	27	32	49
2	5	45	55	1
3	5	35	10	53
4	5	53	33	13
5	5	42	49	5
6	5	32	4	56
7	5	50	27	7
8	5	39	42	58
9	5	28	58	49
10	5	47	21	1
11	5	36	36	52
12	5	25	52	43
13	5	44	14	5[illegible]
14	5	33	30	44
15	5	51	52	54
16	5	41	8	45
17	5	30	24	35
18	5	48	46	46
19	5	38	2	36
20	5	27	18	27
21	5	45	40	38
22	5	34	56	30
23	5	53	18	41
24	5	42	34	32
25	5	31	50	25
26	5	50	12	34
27	5	39	28	25
28	5	28	44	16
29	5	47	6	27
30	5	36	22	18
31	5	25	38	9
32	5	44	0	20

Prima ejus pars in an. expar.

An.	Sex.	Grad.	/	//
33	5	33	16	21
34	5	51	38	22
35	5	40	54	13
36	5	30	10	4
37	5	48	32	15
38	5	37	48	6
39	5	27	3	57
40	5	45	26	9
41	5	34	41	59
42	5	53	4	11
43	5	42	20	2
44	5	31	35	2
45	5	49	58	4
46	5	39	13	54
47	5	28	29	45
48	5	46	51	57
49	5	36	7	47
50	5	25	23	38
51	5	43	45	50
52	5	33	1	40
53	5	51	23	52
54	5	40	39	42
55	5	29	55	33
56	5	48	17	45
57	5	37	33	35
58	5	26	49	26
59	5	45	11	38
60	5	34	27	28
61	5	52	49	40
62	5	42	5	31
63	5	31	21	21
64	5	49	43	32

Prima ejus pars in an. exp.

Anni	Sex.	Gr	/	//
65	5	38	59	23
66	5	28	15	13
67	5	46	37	25
68	5	35	53	16
69	5	25	9	6
70	5	43	31	17
71	5	32	47	8
72	5	51	9	20
73	5	40	25	10
74	5	29	41	1
75	5	48	3	12
76	5	37	19	4

Secunda pars Tabulæ in annis collectis

Anni	Sex.	Gr.	/	//
76	5	59	1	57
152	5	58	3	54
228	5	57	5	50
304	5	56	7	47
380	5	55	9	43
456	5	54	11	40
532	5	53	13	37
608	5	52	15	34
684	5	51	17	30
760	5	50	19	27
836	5	49	21	23
912	5	48	23	20
988	5	47	25	17
1064	5	46	27	14
1140	5	45	29	10
1216	5	44	31	7

Anni	Sex	Gr. / //
1292	5	43.33. 3
1368	5	42.35. 0
1444	5	41.36.57
1520	5	40.38.54
1596	5	39.40 50
1672	5	38.42.47
1748	5	37.44.44
1824	5	36 46.41
1900	5	35.48.37
1976	5	34.50.34
2052	5	33.52.30
2128	5	32.54.27
2204	5	31.56.24
2280	5	30.58.21
2356	5	30. 0.17
2432	5	29. 2.14
2508	5	28. 4 11
2584	5	27. 6. 8
2660	5	26. 8. 4
2736	5	25 10. 1
2812	5	24.11 58
2888	5	23.13.55
2964	5	22.15.52
3040	5	21.17.49
3116	5	20 19.46
3192	5	19 21.42
3268	5	18.23.39
3344	5	17.25 36
3420	5	16.27.32
3496	5	15.29.28
3572	5	14.31.25
3648	5	13.33.21

Anni	Ær.C.	Sex	Gr. / //
3724		5	12.35.18
3800		5	11 37.14
3876		5	10.39 11
3952	3	5	9. 41.11
4028	79	5	8. 43. 7
4104	155	5	7. 45. 4
4180	231	5	6. 47. 0
4256	307	5	5. 48.57
4332	383	5	4. 50.53
4408	459	5	3. 52.51
4484	535	5	2. 54.47
4560	611	5	1. 56.44
4636	687	5	0. 58.41
4712	763	5	0. 0. 38
4788	839	4	59.2. 35
4864	915	4	58. 4.31
4940	991	4	57. 6.28
5016	1067	4	56. 8.25
5092	1143	4	55.10.22
5168	1219	4	54.12. 9
5244	1295	4	53.14.16
5320	1371	4	52.16.12
5396	1447	4	51.18. 9
5472	1523	4	50.20. 6
5548	1599	4	49 22. 2
5624	1675	4	48.23.59
5700	1751	4	47.25.56
5776	1827	4	46.27.52

Tercia pars Tabulæ.

In Noviluniis.

Novil	Sexag.	o	/	/
1	0	29	6	19
2	0	58	12	38
3	1	27	18	58
4	1	56	25	17
5	2	25	31	37
6	2	54	37	55
7	3	23	44	15
8	3	52	50	35
9	4	21	56	53
10	4	51	3	13
11	5	20	9	34
12	5	49	15	52
13	0	18	22	12

In Pleniluniis.

Plenil.	Sexag	o / .
1	0	14. 33 9
2	0	43. 39 26
3	1	12. 45 49
4	1	41. 52 7
5	2	10. 58 20
6	2	40. 4 28
7	3	9. 11 5
8	3	38. 17 25
9	4	7. 23 45
10	4	36. 30 4
11	5	5. 36 23
12	5	34. 42 43

In Quadratura prima.			
0	7	16	35

In Quadratura ultima.			
0	21	49	45

Quarta pars Tab.

Anomalia ⊙ in diebus.			
	°	′	″
1	0	59	8
2	1	58	17
3	2	57	25
4	3	56	33
5	4	55	42
6	5	54	50
7	6	53	58

In horis & minutis.			
	°	′	″
1	0	2	28
2	0	4	56
3	0	7	24
4	0	9	51
5	0	12	19
6	0	14	47
7	0	17	15
8	0	19	43
9	0	22	11
10	0	24	38
11	0	27	6
12	0	29	34

	°	′	″
13	0	32	2
14	0	34	30
15	0	36	58
16	0	39	26
17	0	41	53
18	0	44	21
19	0	46	49
20	0	49	17
21	0	51	45
22	0	54	3
23	0	56	40
24	0	59	8
25	1	1	36
26	1	4	4
27	1	6	32
28	1	9	0
29	1	11	28
30	1	13	55
31	1	16	23
32	1	18	51
33	1	21	19
34	1	23	47
35	1	26	14
36	1	28	42
37	1	31	10
38	1	33	38
39	1	36	6
40	1	38	34
41	1	41	2
42	1	43	29
43	1	45	57
44	1	48	25

	°	′	″
45	1	50	53
46	1	53	21
47	1	55	49
48	1	58	16
49	2	0	44
50	2	3	12
51	2	5	40
52	2	8	8
53	2	10	36
54	2	13	4
55	2	15	31
56	2	17	59
57	2	20	27
58	2	22	55
59	2	25	23
60	2	27	51

Tercia Tabula Anomaliæ Lunaris,

Prima ejus pars in an. exp.

An.	Sex	Grad.	/	//
1	2	54	56	28
2	2	30	33	29
3	1	40	21	20
4	1	15	58	31
5	0	25	46	33
6	5	35	34	34
7	5	11	11	34
8	4	20	59	37
9	3	30	47	38
10	3	6	24	39
11	2	16	12	41
12	1	26	0	47
13	1	1	37	43
1	0	11	25	45
15	5	47	2	46
16	4	56	50	47
17	4	6	38	49
18	3	42	15	50
19	2	52	3	51
20	2	1	51	13
21	1	37	28	54
22	0	47	16	55
23	0	22	53	56
24	5	32	41	58
25	4	42	29	59
26	4	18	7	0
27	3	27	55	2
28	2	37	43	3
29	2	13	20	4
30	1	23	8	6
31	0	32	56	7
32	0	8	33	8

Prima ejus pars in an. exp.

An.	Sex	Grad.	/	//
33	5	18	21	10
34	4	53	58	11
35	4	3	46	12
36	3	13	34	14
37	2	49	11	15
38	1	58	59	16
39	1	4	47	18
40	0	44	24	19
41	5	54	12	21
42	5	29	49	22
43	4	39	37	23
44	3	9	25	25
45	3	25	2	26
46	2	34	50	28
47	1	44	38	29
48	1	20	15	30
49	0	30	3	32
50	5	39	51	34
51	5	15	28	35
52	4	25	16	36
53	4	0	53	37
54	3	10	41	39
55	2	20	29	41
56	1	56	6	42
57	1	5	54	43
58	0	15	42	45
59	5	51	19	46
60	5	1	7	47
61	4	36	44	48
62	3	46	32	49
63	2	56	20	51
64	2	31	57	52

Prima ejus pars in an. exp.

An.	Sex	Grad	/	//
65	1	41	45	53
66	0	51	33	55
67	0	27	10	56
68	5	36	58	57
69	4	46	46	55
70	4	22	24	0
71	3	32	12	1
72	3	7	49	2
73	2	17	37	3
74	1	27	25	5
75	1	3	2	6
76	0	12	50	7

Secunda pars Tab in an collectis,

Anni	Sex	Gr.	/	//
76	2	27	41	49
152	4	55	23	21
228	1	23	5	2
304	3	50	46	43
380	0	18	28	24
456	2	46	10	5
532	5	13	51	46
608	1	41	33	27
684	4	9	15	8
760	0	36	56	49
836	3	4	38	30
912	5	32	20	11
988	2	0	1	5[illegible]
1064	4	27	43	3[illegible]
1140	0	55	25	14
1216	3	23	6	55

Anni	Sex	Gr.	′	″
1292	5	50	48	36
1368	4	18	30	17
1444	2	46	11	58
1520	1	13	53	39
1596	3	41	35	20
1672	0	9	17	1
1748	2	36	58	42
1824	5	4	40	23
1900	1	32	22	4
1976	4	0	3	45
2052	0	27	45	26
2128	2	55	27	7
2204	5	23	8	48
2280	1	50	50	29
2356	4	18	32	10
2432	0	46	13	51
2508	3	13	55	32
2584	5	41	37	13
2660	2	9	18	54
2736	4	37	0	35
2812	1	4	42	16
2888	3	32	23	57
2964	0	0	5	37
3040	2	27	47	1
3116	4	55	29	0
3192	1	23	10	41
3268	3	50	52	22
334	0	18	34	3
3420	2	46	15	44
3496	5	13	57	25
3572	1	41	39	6
3648	4	9	20	47

Anni	Ær. C.	Sex	o	′	″
3724		0	37	2	28
3800		3	4	44	9
3876		5	32	25	50
3952	3	2	0	7	31
4028	79	4	27	49	12
4104	155	0	55	30	53
4180	231	3	23	12	34
4256	307	5	50	54	15
4332	383	2	18	35	56
4408	459	4	46	17	37
4484	535	1	13	59	18
4560	611	3	41	40	59
4636	687	0	9	22	40
4712	763	2	37	4	21
4788	839	5	4	46	2
4864	915	1	32	27	43
4940	991	4	0	9	24
5016	1067	0	27	51	5
5092	1143	2	55	32	46
5168	1219	5	23	14	27
5244	1295	1	59	56	8
5320	1371	4	18	38	49
5396	1447	0	16	19	30
5472	1523	3	14	1	11
5548	1599	5	41	42	52
5624	1675	2	9	24	33
5700	1751	4	37	6	14
5776	1827	1	10	47	55

Tertia pars Tabulæ.

Novilunia.				
Nov	Sex	o	′	″
1	0	25.	49.	0
2	0	51.	38.	0
3	1	17.	27.	0
4	1	43.	16.	0
5	2	9.	5.	0
6	2	34.	54.	0
7	3	0.	43.	0
8	3	26.	32.	0
9	3	52.	21.	0
10	4	18.	10.	1
11	4	43.	59.	1
12	5	9.	48.	2
13	5	35.	37.	1

Plenilunia.				
Plēl.	Sex	o	′	″
1	3	12	54	30
2	3	38	43	30
3	4	4	32	30
4	4	30	21	30
5	4	56	10	30
6	5	21	59	30
7	5	47	48	30
8	0	13	37	30
9	0	39	26	30
10	1	5	15	30
11	1	31	4	31
12	1	56	53	31

Quad [illegible]			
1	37	2[illegible]	[illegible]

Quadratura ultima.			
4	50	21	45

Quarta pars Tabulæ.

Anomalia ☽ in diebus.				
dies	Sex	o	/	//
1	0	13.	3	54
2	0	26.	7.	48.
3	0	39.	11.	42.
4	0	52.	15.	36.
5	1	5.	19.	30.
6	1	18	23.	24.
7	1	31.	27.	18.

Anom. ☽ in hor. & scrup.			
	o	/	//
1	0	32	40
2	1	5	19
3	1	37	59
4	2	10	39
5	2	43	19
6	3	15	58
7	3	48	38
8	4	21	18
9	4	53	58
10	5	26	37
11	5	59	17
12	6	31	57
13	7	4	37
14	7	37	16
15	8	9	56
16	8	42	36
1	9	15	16
18	9	47	55
19	10	20	35
20	10	53	15

Anom ☽ in hor. & scrup.			
	o	/	//
21	11	25	55
22	11	58	34
23	12	31	14
24	13	3	54
25	13	36	34
26	14	9	13
27	14	41	53
28	15	14	33
29	25	47	13
30	16	19	52
31	16	52	32
32	17	25	12
33	17	57	52
34	18	30	31
35	19	3	11
36	19	35	51
37	20	8	31
38	20	41	10
39	21	13	50
40	21	46	30
41	22	19	10
42	22	51	49
43	23	24	29
44	23.	57	9
45	24	29	9
46	25	2	28
47	25	35	8
48	26	7	48
49	26	40	28
50	27	13	7
51	27	45	47
52	28	18	27

Anom. ☽ in hor. & scrup			
53	28	51	7
54	29	23	46
55	29	56	26
56	30	29	6
57	31	1	45
58	31	34	25
59	32	7	5
60	32	39	45

Tabula sub Litera ⊖.

Tabula Latitud.

Lunaris.

Prima ejus pars in an exp.

An.	Sex.	Grad.	/	//
1	0	2	41	28
2	0	41	24	29
3	0	49	27	1
4	1	28	10	18
5	1	36	13	6
6	1	44	15	53
7	2	22	58	54
8	2	31	1	4
9	2	39	4	29
10	3	17	47	30
11	3	25	50	18
12	3	33	53	5
13	4	12	36	6
14	4.	20	38	54
15	4	59	21	55
16	5	7	24	42
17	5	15	27	37
18	5	54	10	31
19	0	2	13	18
20	0	10	16	5

Prima ejus pars in an expansis				
An.	Sex	Grad.	/	//
21	0	48	59	6
22	0	57	1	53
23	1	35	44	54
24	1	43	47	40
25	1	51	50	27
26	2	30	33	28
27	2	38	36	15
28	2	46	39	1
29	3	25	22	2
30	3	33	24	49
31	3	41	27	36
32	4	20	10	37
33	4	28	13	23
34	5	6	56	34
35	5	14	59	21
36	5	23	2	8
37	0	1	45	9
38	0	9	47	55
39	0	17	50	42
40	0	56	33	44
41	1	4	36	31
42	1	43	19	32
43	1	51	22	20
44	1	59	25	7
45	2	38	8	9
46	2	46	10	56
47	2	54	13	43
48	3	32	56	45
49	3	40	59	32
50	3	49	2	19
51	4	27	45	20
52	4	35	48	8

Prima ejus pars in an expansis				
An.	Sex	Gr.	/	//
53	5	14	31	9
54	5	22	33	56
55	5	30	36	44
56	0	9	19	46
57	0	17	22	34
58	0	25	25	21
59	1	4	8	22
60	1	12	11	9
61	1	50	54	10
62	1	58	56	58
63	2	6	59	45
64	2	45	42	46
65	2	53	45	33
66	3	1	48	20
67	3	40	31	22
68	3	48	34	9
69	3	56	36	56
70	4	35	19	57
71	4	43	22	45
72	5	22	5	46
73	5	30	8	33
74	5	38	11	20
75	0	16	54	21
76	0	24	57	9

Secunda pars Tabulæ huius in an collectis.				
Anni	Sex	Gr.	/	//
76	0	30	18	30
152	1	10	37	0
228	1	30	55	30
304	2	1	14	0
380	2	31	32	30
456	3	1	51	0
532	3	32	9	30
608	4	2	28	0
684	4	2	46	30
760	5	3	5	0
836	5	33	23	31
912	0	3	42	1
988	0	34	0	31
1064	1	4	19	1
1140	1	34	37	31
1216	2	4	56	1
1292	2	35	14	31
1368	3	5	13	1
1444	3	35	51	32
1520	4	6	10	2
1596	4	36	28	32
1672	5	6	47	2
1748	5	37	5	32
1824	0	7	24	3
1900	0	37	42	32
1976	1	8	1	2
2052	1	38	19	32
2128	2	8	38	2
2204	2	38	56	33
2280	3	9	15	3
2356	3	39	33	33
2432	4	9	15	3

Anni	Anni Æræ Christia.	S x	Gr. ' ''
2508		4	40.10.34
2584		5	10.29. 4
2660		5	40.47.34
2736		0	11. 6. 4
2812		0	41.24.34
2888		1	11.43. 7
2964		1	42. 1.36
3040		2	12.20 5
3116		2	42 38.35
3192		3	12.57. 4
3268		3	43 15.33
3344		4	13.34. 3
3420		4	43.52.32
3496		5	14 11. 1
3572		5	44.29.31
3648		0	14.48. 0
3724		0	45. 6,29
3800		1	15.24.59
3876		1	45 43.28
3952	3	2	16. 2.43
4028	79	2	46.21.11
4104	155	3	16.39.38
4180	231	3	46.58. 5
4256	307	4	17.16.33
4332	383	4	47.35. 0
4408	459	5	17 53.30
4484	535	5	48.12. 0
4560	611	0	18.30.30
4636	687	0	48.49. 0
4712	763	1	19. 7.31
4788	839	1	49.26. 1
4864	915	2	19.44.31

Anni	Ær. Ch	Sex	☉ ' ''
4940	991	2	50.3. 1
5016	1067	3	20.21.31
5092	1143	3	50.40. 2
5168	1219	4	20.58.32
5244	1295	4	51.17. 2
5320	1371	5	21.35.32
5396	1447	5	51.54. 3
5472	1523	0	22.12 33
5548	1599	0	52.31. 3
5624	1675	1	22.48.33
5700	1751	1	53. 8. 3
5776	1827	2	23.26.34

Plenilunia.				
Plen.	Sex	o	'	''
1	3	15.	29	7
2	3	46.	0	21
3	4	16.	40	35
4	4	47.	20	49
5	5	18.	1	2
6	5	48.	41	16
7	0	19.	21	30
8	0	50	1	44
9	1	20.	41	58
10	1	51.	22	12
11	2	22.	2	26
12	2	22.	42	39

Tertia pars Tabulæ.

Novilunia.				
Mēs.	Sex	o	'	''
1	0	30	40	14
2	1	1	20	28
3	1	32	0	42
4	2	2	40	56
5	2	33	21	10
6	3	4	1	23
7	3	34	41	37
8	4	5	21	51
9	4	36	2	5
10	5	6	42	19
11	5	37	22	32
12	0	8	2	48
13	0	38	43	2

Quadratura prima.	
1	37 40. 3

Quadratura secunda.	
4	53 0 11

Quarta pars Tab.

Latitudo ☽ in diebus		
dies	Sex	o ' ''
1	0	13.13 46
2	0	26.27.31.
3	0	39.41.17.
4	0	52.55. 3.
5	1	6. 8.48.
6	1	19 22.34.
7	1	32.36.19.

In horis & minutis.			
	o	'	''
1	0	33	4
2	1	6	9
3	1	39	13
4	2	12	18
5	2	45	22
6	3	18	26
7	3	51	31
8	4	24	35
9	4	57	40
10	5	30	44
11	6	3	48
12	6	36	53
13	7	9	57
14	7	43	2
15	8	16	6
16	8	49	10
17	9	22	15
18	9	55	19
19	10	28	24
20	11	1	28
21	11	34	32
22	12	7	37
23	12	40	41
24	13	13	46
25	13	46	50
26	14	19	54
27	14	52	59
28	15	26	3
29	15	59	8
30	16	32	12
31	17	5	17
32	17	38	21

In horis & minutis			
	o	'	''
33	18	11	25
34	18	44	30
35	19	17	34
36	19	50	38
37	20	23	43
38	20	56	47
39	21	29	51
40	22	2	56
41	22	36	0
42	23	9	4
43	23	42	9
44	24	15	13
45	24	48	18
46	25	21	22
47	25	54	26
48	26	27	31
49	27	0	35
50	27	33	40
51	28	6	44
52	28	39	48
53	29	12	53
54	29	45	57
55	30	19	1
56	30	52	6
57	31	25	10
58	31	58	15
59	32	31	19
60	33	4	24

Ne te turbet Lector, quod Tabulam Æquationis Epicyclicæ Lunæ, *sub Lit.* K. statim sequatur Tabula Æquationis ultimæ Lunæ, quæ est composita ex Eccentricitate Lunæ & variatione eius, secundum hypotheses observationesq; Brahei, quæque hîc sub Lit. P indigitatur: quandoquidem series facierum & pagellarum hunc positum exegit, ut utramque Æquationis Lunæ Tabulam conjunxerimus. Hasce excipiunt reliquæ, quæ ad absolvendum calculum eclipsigraphicum & Luminarium necessariæ sunt; sicut in præceptis earum usus propositus est.

TABULA ÆQUATIO-

		0 Sex, 0 g. subtr	dif ad.	h. ad.	1 Sex, 30 g. subtr.	diff A.	h ad	1 Sex, 0 g. subtr	diff. A.	H. ad		
Gr.		° ' "	' "	"	° ' "	' "	"	° ' "	' "	"		
0	30	0. 0 0	2 5	5	0. 59 31	1 49	5	1. 44 23	1 6	3	60	30
1	31	0. 2 5	2--4	5	1. 1 20	1--48	5	1. 45 29	1---4	3	59	29
2	32	0. 4 9	2 4	5	1. 3 8	1 46	5	1. 46 33	1 2	2	58	28
3	33	0. 6 13	2---4	5	1. 4 54	1--46	5	1. 47 35	1---0	2	57	27
4	34	0 8 17	2 3	5	1. 6 40	1 44	4	1. 48 35	0 59	2	56	26
5	35	0. 10 20	2- -3	5	1.. 8 24	1--43	4	1. 49 34	0-57	2	55	25
6	36	0. 12 23	2 3	5	1. 10 7	1 41	4	1. 50 31	0- 55	2	54	24
7	37	0. 14 26	2.--3	5	1. 11 48	1 -40	4	1. 51 26	0--51	2	53	23
8	38	0. 16 29	2 3	5	1. 13 28	1 39	4	1. 52 17	0 49	2	52	22
9	39	c. 18 32	2--3	5	1. 15 7	1--38	4	1. 53 6	0--47	2	51	21
10	40	0. 20 35	2 2	5	1. 16 45	1 37	4	1. 53 53	0 48	2	50	20
11	41	0. 22 37	2--1	5	1. 18 22	1--36	4	1. 54 41	0--46	2	49	19
12	42	0. 24 38	2 1	5	1. 19 58	1 34	4	1. 55 27	0 43	2	48	18
13	43	0. 26 39	2---1	5	1. 21 32	1--33	4	1. 56 10	0-39	2	47	17
14	44	0. 28 40	2 1	5	1. 23 5	1 32	4	1. 56 49	0 38	2	46	16
15	45	0. 30 41	2---0	5	1. 24 37	1--31	4	1. 57 27	0-36	2	45	15
16	46	0. 32 41	2 0	5	1. 26 8	1 29	4	1. 58 3	0 33	1	44	14
17	47	0. 34 41	1--59	5	1. 27 37	1-27	4	1. 58 36	0·32	1	43	13
18	48	0. 36 40	1 59	5	1. 29 4	1 25	4	1. 59 8	0 30	1	42	12
19	49	0. 38 39	1--58	5	1. 30 29	1--24	4	1. 59 38	0--28	1	41	11
20	50	0. 40 37	1 57	5	1. 31 53	1 23	4	2. 0 6	0 26	1	40	10
21	51	0. 42 34	1 -56	5	1. 33 16	1 21	4	2. 0 32	0 ·24	1	39	9
22	52	0. 44 30	1 55	5	1. 34 37	1 20	3	2. 0 56	0 21	1	38	8
23	53	0. 46 25	1--55	5	1. 35 57	1- 18	3	2. 1 17	0--19	1	37	[illegible]
24	54	0. 48 20	1 54	5	1. 37 15	1 15	3	2. 1 36	0 16	1	36	6
25	55	0. 50 14	1 -53	5	1. 38 30	1--14	3	2. 1 52	0--14	1	35	5
26	56	0. 52 7	1 53	5	1. 39 44	1 12	3	2. 2 6	0 12	1	34	4
27	57	0. 54 0	1- 52	5	1. 40 56	1--10	3	2. 2 18	0 10	1	33	3
28	58	0. 55 52	1 50	5	1. 42 6	1 9	3	2. 2 28	0 8	1	32	2
29	59	0. 57 42	1 49	5	1. 43 15	1--- 8	3	2. 2 36	0--6	1	31	1
30	60	0 59 31		5	1. 44 23		3	2. 2 42		1	30	0
		5 Sex, 30 gr. Ad.	diff S	ad. h.	5 Sex, 0 gr. Ad.	Diff. S	ad h.	4 Sex 30 gr. A	diff S	H. ad		

NUM SOLIS.

Gr.		1 Sex,30 g.subt ° ′ ″	dif A.S ′ ″	h.ad. ″	2 Sex,0 g.subt ′ ″	diff.S ′ ″	h su ″	2 Sex,30 g.subt. ° ′ ″	diff.S ′ ″	H.su. ″		
0	30	2. 2 42	0 4	1	1. 48 12	1 3	2	1. 3 19	1 53	5	60	30
1	31	2. 2 46	0---2	0	1. 47 9	1----4	3	1. 1 26	1-55	5	59	29
2	32	2. 2 48	0 0 subtr.	0	1. 46 5	1 7	3	0. 59 31	1 56	5	58	28
3	33	2. 2 48	0---1	0	1. 44 58	1---9	3	0. 57 35	1-58	5	57	27
4	34	2 2 47	0 4	0	1. 43 49	1 11	3	0. 55 37	2 0	5	56	26
5	35	2. 2 43	0--9	0	1. 42 38	1--13	3	0. 53 37	2---1	5	55	25
6	36	2. 2 34	0 12	0	1. 41 25	1 16	3	0. 51 36	2 2	5	54	24
7	37	2. 2 22	0-13	0	1. 40 9	1--17	3	0. 49 34	2---3	5	53	23
8	38	2. 2 9	0 16	0	1. 38 52	1 18	3	0. 47 31	2 3	5	52	22
9	39	2. 1 53	0-17	0 subtr	1. 37 34	1--20	3	0. 45 28	2---3	5	51	21
10	40	2. 1 36	0 19	1	1. 36 14	1 22	3	0. 43 25	2 4	5	50	20
11	41	2. 1 17	0--21	1	1. 34 52	1--24	3	0. 41 21	2--5	5	49	19
12	42	2. 0 56	0 24	1	1. 33 28	1 26	3	0. 39 16	2 6	5	48	18
13	43	2. 0 32	0--26	1	1. 32 2	1--28	3	0. 37 10	2--7	5	47	17
14	44	2. 0 6	0 28	1	1. 30 34	1 31	4	0. 35 3	2 8	5	46	16
15	45	1. 59 38	0-30	1	1 29 3	1--32	4	0. 32 55	2---9	5	45	15
16	46	1. 59 8	0 32	1	1. 27 31	1 34	4	0. 30 46	2 10	5	44	14
17	47	1. 58 36	0--35	1	1. 25 57	1-36	4	0. 28 36	2-10	5	43	13
18	48	1. 58 1	0 37	1	1. 24 21	1 37	4	0. 26 26	2 10	5	42	12
19	49	1. 57 24	0--39	2	1. 22 24	1--38	4	0. 24 16	2--11	5	41	11
20	50	1. 56 45	0 42	2	1. 21 6	1 39	4	0. 22 5	2 11	5	40	10
21	51	1. 56 3	0-43	2	1. 19 27	1-40	4	0. 19 54	2-11	5	39	9
22	52	1. 55 20	0 45	2	1. 17 47	1 42	4	0. 17 43	2 12	5	38	8
23	53	1. 54 35	0--47	2	1. 16 5	1--45	4	0. 15 31	2--12	5	37	7
24	54	1. 53 48	0 50	2	1. 14 20	1 48	4	0 13 19	2 13	5	36	6
25	55	1. 52 58	0--53	2	1. 12 32	1-49	4	0. 11 6	2--13	5	35	5
26	56	1. 52 5	0 56	2	1. 10 43	1 49	4	0 8 53	2 13	5	34	4
27	57	1. 51 9	0--57	2	1. 8 54	1--50	4	0. 6 40	2--13	5	33	3
28	58	1. 50 12	0 59	2	1. 7 4	1 52	4	0. 4 27	2 14	5	32	2
29	59	1. 49 13	1 1	2	1. 5 12	1-53	4	0. 2 13	2-13	5	31	1
30	60	1. 48 12		2	1. 3 19		5	0. 0 0		5	30	0
		4 Sex.o gr. Ad.	d. S	fu h.	3. Sex.30 gr. A.	Diff. A	fu h.	3 Sex o gr. A.	diff. A	fu. h.		Gr.

TABULA ÆQUATIONIS

		0 ſex. 0 g. ſub	dif. ad.	h. ☽ mo.	0 ſex. 30 g. ſu	dif ad	h ☽ mo	1 Sex. 0 g. ſub.	dif. ad	h. ☽ mo.	
Gr.		° ′ ″	′ ″	′ ″	° ′ ″	′ ″	′ ″	° ′ ″	′ ″	′ ″	
0	30	0. 0. 0.	5 4	27.42	2. 25.47.	4 25	28. 3	4 14.51.	2 38	29. 2	60 30
1	31	0. 5. 4.	5---4	27.42	2. 30.12.	4- 22	28. 4	4. 17.29.	2·-33	29. 5	59 29
2	32	0. 10. 8.	5 4	27.42	2. 34.34.	4 20	28. 6	4. 20. 2	2 29	29. 7	58 2
3	33	0. 15.12.	5---4	27.42	2. 38.54.	4--17	28. 8	4. 22.31.	2-24	29.10	57 2
4	34	0 20.16.	5 4	27.42	2. 43.11.	4 14	28. 9	4. 24.55.	2 19	29.12	56 2
5	35	0. 25.20.	5---3	27.42	2. 47.25.	4--12	28.10	4. 27.14.	2·15	29.15	55
6	36	0. 30.23.	5 3	27.43	2. 51.37.	4 9	28.12	4 29.29.	2 10	29.17	54
7	37	0. 35.26.	5·--2	27.43	2. 55.46	4 ---6	28.14	4 31.39.	2---5	29.20	53
8	38	0. 40.28.	5 1	27.43	2. 59.52.	4 2	28.16	4. 33.44.	2 0	29.23	52 2
9	39	0. 45.29	5·--1	27.43	3. 3. 54.	3--59	28.17	4. 35.44.	1--55	29.25	51 2
10	40	0 50.30.	5 0	27.44	3. 7. 53	3 56	28.19	4. 37.39.	1 51	29.28	50 2
11	41	0. 55.30.	4--58	27.45	3. 11.49.	3--53	28.21	4 39.30.	1--47	29.30	49 1
12	42	1. 0.28.	4 57	27.46	3. 15.42.	3 49	28.23	4. 41.17.	1 42	29.33	48 1
13	43	1. 5.25	4--56	27.46	3. 19.31.	3- 46	28.25	4 42.59.	1 -36	29.36	47
14	44	1. 10.21.	4 55	27.47	3. 23.17.	3 42	28.27	4. 44.35.	1 30	29.39	46 1
15	45	1.. 15.16.	4-54	27.47	3. 26.59.	3--39	28.29	4. 46. 5.	1 -25	29 42	45 1
16	46	1. 20.10.	4 53	27.48	3. 30.38.	3 35	28.31	4. 47.30.	1 20	29.45	44 1
17	47	1. 25. 3.	4-52	27.48	3. 34.13.	3 -31	28.33	4. 48.50.	1·16	29.48	43
18	48	1. 29.55	4 49	27.49	3. 37.44.	3 28	28 35	4. 50. 6.	1 10	29.50	42
19	49	1. 34.44.	4--48	27.50	3. 41.12.	3--24	28.37	4. 51.16.	1--- 5	29.53	41
20	50	1. 39.32.	4 46	27.52	3. 44.36.	3 20	28.39	4. 52.21.	1 0	29.56	40 1
21	51	1. 44.18.	4 -45	27.53	3. 47.56.	3 16	28.41	4 53.21.	0 ·55	29.59	39
22	52	1. 49. 3.	4 44	27.54	3. 51.12.	3 12	28.43	4. 54 16.	0 49	30. 2	38
23	53	1. 53.47.	4--42	27.55	3. 54.24.	3 --8	28.45	4. 55. 5.	0· 44	30. 4	37
24	54	1. 58.29.	4 39	27.57	3. 57.32	3 4	28.48	4 55.49.	0 39	30. 7	36
25	55	2. 3. 8.	4--36	27.57	4. 0. 36.	2-·59	28.50	4. 56.28.	0--33	30 10	35
26	56	2. 7.44.	4 34	27.58	4. 3. 35.	2 55	28.53	4. 57. 1.	0 28	30.13	34
27	57	2. 12.18.	4--32	27.59	4 6. 30.	2·-51	28.55	4. 57.29	0--22	30.16	33
28	58	2. 16.50.	4 30	28. 0	4. 9. 21.	2 47	28.57	4. 57.51.	0 17	30.19	32
29	59	2. 21.20.	4-27	28. 2	4. 12. 8.	2· 43	28.59	4. 58. 8.	0·12	30.22	31
30	60	2 25.47.		28. 3	4. 14.51.		29. 2	4. 58.20.		30 25	30
		adde 5 ſex. 30 gr.	ſubtr. diff.	☽ Mot. hor	adde 5. ſex. 0 gr.	ſubtr. diff.	☽ Mot. hor	add. 4 ſex 30 gr	ſubtr. diff.	☽ mot. hora.	

EPICYCLICÆ LUNÆ.

		1 ſex.30 g.ſ.	dit, ad.	h. ☽ mo	2 ſex.0 g ſub	dif.ſub	h. ☽ mo.	1 ſex.30 g.ſu.	dif.ſub	☽ mo.		
Gr.		° ′ ″	′ ″	′ ″	° ′ ″	′ ″	′ ″	° ′ ″	′ ″	′ ″		
0	30	4.58.20	0 6	30.25	4 22.20.	2 34	31.52	2, 33.18.	4 37	33. 1	60	30
1	31	4 58.26	0--1	30.28	4 19.46.	2-39	31.56	2. 28.41.	4.40	33. 2	59	29
2	32	4 58.27	0S 5	30.31	4 17. 7.	2 43	31.58	2. 24. 1.	4 43	33 4	58	28
3	33	4.58 22	0--8	30.33	4 14.24.	2-48	32. 1	2 19.18.	4-45	33. 5	57	27
4	34	4.58.14	0 15	30.37	4 11.36.	2 53	32. 3	2. 14.33	4.48	33. 7	56	26
5	35	4.57.59	0- 22	30.41	4 8.43.	2--58	32. 6	2. 9.45.	4-50	33. 8	55	25
6	36	4.57.37	0 27	30.4	4. 5.45.	3 3	32. 9	2 4.55.	4 53	33. 9	54	24
7	37	4.57.10	0- 32	30 46	4 2.42.	3--7	32.11	2. 0. 2.	4--55	33.11	53	23
8	38	4.56 38	0 37	30.49	3. 59.35	3 12	32.14	1. 55. 7.	4 58	33.12	52	22
9	39	4.56. 1	0--43	30.52	3. 56.23	3--17	32.17	1. 50. 9.	5---1	33.14	51	21
10	40	4.55.18	0 48	30.55	3 53. 6.	3 21	32.19	1. 45. 8	5 3	33.15	50	20
11	41	4.54.30	0--54	30.58	3 49.45.	3- 25	32.21	1. 40. 5	5---4	33.16	49	19
12	42	4.53.36	0 59	31. 1	3 46.20.	3 30	32.24	1. 35. 1.	5 6	33.17	48	18
13	43	4.52. 37	1--4	31. 4	3. 42.50.	3- 34	32.26	1. 29.55.	5 8	33.18	47	17
14	44	4.51.33	1 10	31. 7	3. 39.16	3 38	32.28	1. 24 47	5 9	33.18	46	16
15	45	4 50.23	1--16	31 10	3. 35.38.	3-43	32.30	1. 19.38.	5- 11	33.19	45	15
16	46	4.49. 7	1 21	31.15	3. 31.55.	3 47	32 33	1. 14.27	5 13	33.20	44	14
17	47	4.47.46	1--25	31.16	3 28. 8.	3 59	32.35	1. 9.14	5--15	33.21	43	13
18	48	4.46 21	1 31	31.19	3. 24.18.	3 54	32.37	1 3 59.	5 16	33:22	42	12
19	49	4 44.50	1--37	31.22	3. 20.24	3 59	32 40	0. 58.43	5--16	33.22	41	11
20	50	4.43.13	1 42	31.25	3. 16.25.	4 3	32.42	0. 53.27.	5 17	33.23	40	10
21	51	4.41.31	1- 48	31.28	3. 12.22.	4--7	.2.44	0 48 10.	5--18	33.23	39	9
22	52	4.39.43	1 52	31.30	3. 8.15.	4 10	32.46	0. 42.52	5 19	33.24	38	8
23	53	4.37. 51	1- 57	31.33	3. 4. 5.	4 13	32.48	0 37.33	5--20	33 24	37	7
24	54	4.35.54	2 3	31.36	2. 59.52.	4 17	32.50	0. 32.13	5 21	33 25	36	6
25	55	4. 33.51	2---9	31.39	2. 55.35.	4 21	32.52	0 26.52.	5--22	33.25	35	5
26	56	4.31.42	2 13	31.4	2. 51.14.	4 25	32.54	0. 21.30.	5 22	33.25	34	4
27	57	4 29.29	2--18	31.44	2 46.49	4-28	32.56	0 16. 8.	5--22	33.25	33	3
28	58	4 27.11	2 23	31.47	2. 42.21.	4 30	32.57	0. 10.46	5 23	33.26	32	2
29	59	4.24.48	2- 28	31. 50	2. 37.51.	4 33	32.59	0 5.23	5- 23	33.26	31	1
30	60	4.22.20		31. 52	2. 33.18.		33. 1	0 0. 0.		33.26	30	0
		adde 4 ſex. 0 g	add. diff. —	☽ mot hor. —	adde 3 ſex.30 gr —	add. diff. —	☽ mot. hor —	add. 2 ſex 0 gr. —	add diff. —	☽ mot. hor —		

TABULA Æquationis ultimæ ☽

An. ☽ Sex. O	ſex — o 0 3 ſubt — Gr. /	ſex — o 0 6 ſubt — Gr. /	ſex — o 0 9 ſubt — Gr. /	ſex — o 0 12 ſubt — Gr. /	ſex — o 0 15 ſubt — Gr. /	ſex — o 0 18 ſubt — Gr. /	ſex — o 0 21 ſubt — Gr. /	ſex — o 0 24 ſubt — Gr. /	ſex — o 0 27 ſubt — Gr. /	ſex — o 0 30 ſubt — Gr. /	Anom. ☽
	Diſtantia vera ☽ à ☉ vel ab ejus ☍										
0 0	0 3	0 7	0 10	0 13	0 16	0 19	0 21	0 23	0 25	0 27	60
0 6	0 3	0 7	0 10	0 13	0 17	0 20	0 23	0 26	0 28	0 31	54
0 12	0 3	0 7	0 10	0 14	0 17	0 21	0 24	0 28	0 31	0 34	48
0 18	0 3	0 6	0 10	0 14	0 17	0 21	0 25	0 29	0 32	0 36	42
0 24	0 3	0 6	0 9	0 13	0 17	0 21	0 25	0 29	0 33	0 37	36
0 30	0 3	0 5	0 9	0 12	0 16	0 20	0 25	0 29	0 33	0 38	30
0 36	0 2	0 5	0 8	0 11	0 15	0 19	0 24	0 28	0 33	0 38	24
0 42	0 2	0 4	0 7	0 10	0 13	0 18	0 2[illegible]	0 [illegible]7	0 32	0 37	18
0 48	0 1	0 3	0 5	0 8	0 12	0 16	0 20	0 25	0 30	0 35	12
0 54	0 1	0 2	0 4	0 6	0 9	0 13	0 17	0 22	0 27	0 33	6
Sex. o 1 0	adde	0 1 add.	0 2	0 4	0 7	0 10	0 14	0 19	0 24	0 29	Sex.
1 6	0 1	0 1	adde	0 2 add.	0 4	0 7	0 11	0 15	0 20	0 25	54
1 12	0 1	0 2	0 2	0 1	0 1 add.	0 3 add.	0 7	0 11	0 15	0 21	48
1 18	0 2	0 3	0 4	0 4	0 2	0 1	0 2 add.	0 6	0 10	0 15	42
1 24	0 3	0 5	0 6	0 7	0 6	0 5	0 3	0 1 add.	0 5 add.	0 10	36
1 30	0 4	0 7	0 9	0 10	0 10	0 9	0 8	0 5	0 1	0 3 add.	30
1 36	0 5	0 8	0 11	0 13	0 14	0 14	0 13	0 11	0 8	0 4	24
1 42	0 5	0 10	0 14	0 16	0 18	0 19	0 18	0 17	0 15	0 11	18
1 48	0 6	0 12	0 16	0 20	0 22	0 24	0 24	0 24	0 22	0 19	12
1 54	0 7	0 13	0 19	0 23	0 26	0 29	0 30	0 30	0 29	0 27	6
Sex. o 2 0	0 8	0 15	0 21	0 26	0 30	0 34	0 36	0 37	0 36	0 35	Sex
2 6	0 8	0 16	0 23	0 29	0 34	0 38	0 41	0 43	0 44	0 43	54
2 12	0 9	0 18	0 25	0 32	0 38	0 43	0 47	0 50	0 51	0 51	48
2 18	0 10	0 19	0 27	0 35	0 42	0 48	0 52	0 56	0 58	0 59	42
2 24	0 10	0 20	0 29	0 38	0 45	0 52	0 57	1 2	1 5	1 7	36
2 30	0 11	0 21	0 31	0 40	0 48	0 56	1 2	1 7	1 11	1 14	30
2 36	0 11	0 22	0 33	0 42	0 51	0 59	1 6	1 12	1 17	1 21	24
2 42	0 12	0 23	0 34	0 44	0 54	1 2	1 10	1 17	1 23	1 27	18
2 48	0 12	0 24	0 35	0 46	0 56	1 5	1 14	1 21	1 28	1 33	12
2 54	0 12	0 24	0 36	0 47	0 57	1 7	1 17	1 25	1 32	1 38	6
3 0	0 12	0 24	0 36	0 48	0 59	1 9	1 19	1 28	1 36	1 42	0
Coæquat.	ſubtr. ſex — o 2 57	ſubtr. ſex — o 2 54	ſubtr. ſex — o 2 51	ſubtr. ſex — o 2 48	ſubtr ſex — o 2 45	ſubtr. ſex — o 2 42	ſubtr. ſex — o 2 39	ſubtr. ſex — o 2 36	ſubtr. ſex — o 2 33	ſubtr. ſex — o 2 30	3 Sex. Coæq.

compoſita ex Æquat. Eccentr. & variatione Tychonica.

	Distantia vera ☽ à ☉ ab ejus ☍										
An. ☽ Sex. O	ſex—o 0. 3 add.— Gr. /	ſex.—o 0. 6 add.— Gr. /	ſex.—o 0 9 add.— Gr. /	ſex.—o 0. 12 add.— Gr. /	ſex.—o 0. 15 add.— Gr. /	ſex.—o 0 18 add.— Gr. /	ſex.—o 0. 21 add.— Gr. /	ſex.—o 0. 24 add.— Gr. /	ſex.—o 0. 27 add.— Gr. /	ſex.—o 0 30 add.— Gr. /	Anom. ☽
3 0	0 12	0. 24	0. 36	0 48	0. 59	I 9	I. 19	I. 28	I. 36	I 42	3 Sex
3 6	0 12	0. 24	0. 36	0. 48	I. 0	I. 10	I. 20	I. 30	I. 38	I. 46	54
3 12	0 12	0. 24	0. 36	0. 48	I. 0	I. 11	I. 22	I. 32	I. 40	I. 49	48
3 18	0 12	0. 24	0. 36	0. 48	I. 0	I. 11	I. 22	I. 32	I. 42	I. 51	42
3 24	0 12	0. 24	0. 36	0. 48	0. 59	I. 11	I. 22	I. 33	I. 42	I. 52	36
3 30	0 11	0. 23	0. 35	0. 47	0. 58	I. 10	I. 21	I. 32	I. 42	I. 52	30
3 36	0 11	0. 22	0. 34	0. 45	0. 57	I. 9	I. 20	I. 31	I. 41	I. 51	24
3 42	0 10	0 21	0. 32	0. 44	0. 55	I. 7	I. 18	I. 29	I. 39	I. 49	18
3 38	0 10	0. 20	0. 31	0. 42	0. 53	I. 4	I. 15	I. 26	I. 37	I. 47	12
3 54	0 9	0. 19	0 29	0. 40	0. 50	I. 1	I. 12	I. 23	I. 34	I. 44	6
4 Sex.	0 8	0. 18	0. 27	0. 37	0. 48	0. 58	I. 9	I. 19	I. 30	I. 40	2 Sex.
4 6	0 8	0. 16	0. 25	0. 35	0. 44	0. 55	I. 5	I. 15	I. 25	I. 35	54
4 12	0 7	0. 15	0. 23	0. 32	0. 41	0. 51	I. 1	I. 11	I. 20	I. 30	48
4 18	0 6	0. 13	0. 21	0. 29	0. 38	0. 47	0. 56	I. 6	I. 14	I. 24	42
4 24	0 5	0. 12	0. 18	0. 26	0. 34	0. 42	0. 51	I. 0	I. 9	I. 18	36
4 30	0 4	0. 10	0. 16	0. 23	0. 30	0. 38	0. 46	0. 54	I. 3	I. 12	30
4 36	0 4	0. 8	0. 14	0. 20	0. 26	0. 33	0. 41	0. 48	0. 57	I. 5	24
4 42	0 3	0. 7	0. 11	0. 16	0. 22	0. 29	0. 35	0. 42	0. 50	0. 58	18
4 48	0 2	0. 5	0. 9	0. 13	0. 18	0. 24	0. 30	0. 36	0. 43	0. 50	12
4 54	0 1	0. 4	0. 6	0. 10	0. 14	0. 19	0. 24	0. 30	0. 36	0. 43	6
5 Sex.	0 1	0. 2	0. 4	0. 7	0. 10	0. 14	0. 19	0. 24	0. 29	0. 35	1 Sex.
5 6	ſubtr.	0 1	0. 2	0. 4	0. 7	0. 10	0. 14	0. 18	0 23	0. 28	54
5 12	0 0	-ſubtr.- 0. 0	ſubtr.	0. 1	0. 3	0. 6	0. 9	0. 12	0. 16	0. 20	48
5 18	0 1	0. 2	0. 2	ſubtr. 0. 1	ſubtr	0 1	0 4	0. 6	0. 9	0. 13	42
5 24	0 2	0. 3	0. 3	0. 4	0. 3	ſubt 0. 2	ſubt. 0. 1	0. 1	0 3	0 6	36
5 30	0 2	0. 4	0. 5	0. 6	0. 6	0. 6	0. 5	ſubtr. 0 4	-ſubtr.- 0 3	-ſubtr. 0. 1	30
5 36	0 2	0. 5	0. 6	0. 8	0. 9	0. 9	0. 9	0. 9	0. 8	0. 7	24
5 42	0 3	0. 5	0. 8	0. 9	0. 11	0. 12	0. 13	0. 13	0 13	0. 13	18
5 48	0 3	0. 6	0. 9	0. 11	0. 13	0. 15	0. 16	0. 17	0. 18	0. 18	12
5 54	0 3	0. 6	0. 9	0. 12	0. 15	0. 17	0. 19	0. 21	0. 22	0. 23	6
6 Sex	0. 3	0. 7	0. 10	0. 13	0. 16	0. 19	0. 21	0. 23	0. 25	0. 26	0 Sex.
Coæquat	adde ſex—o 2 57	adde ſex.—o 2 54	adde ſex.—o 2. 51	adde ſex.—o 2. 48	adde ſex—o 2. 45	adde ſex—o 2. 42	adde ſex.—o 2 39	adde ſex.— 2. 36	adde ſex.—o 2. 33	adde ſex.—o 2 30	Coæquat.

Tabula Æquationis ultimæ ☽

An. ☽	Distantia vera ☽ à ⊙ vel ab ejus ☍ sex — 0 30 subt —	sex — 0 33 subt —	sex — 0 36 subt —	sex — 0 39 subt —	sex — 0 42 subt —	sex — 0 45 subt —	sex — 0 48 subt —	sex. — 0 51 subt —	sex — 0 54 subt —	sex — 0. 57 subt —	Sex. 0 I. 0 subtr.	Anom. ☽
0 Sex.	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	Gr. ′	
0 Gr.	0 27	0 29	0 30	0 30	0 31	0 31	0 30	0 30	0 29	0 27	0 26	6c
6	0 31	0 33	0 35	0 36	0 37	0 38	0 38	0 38	0 38	0 37	0 37	54
12	0 34	0 36	0 39	0 41	0 43	0 44	0 46	0 46	0 47	0 47	0 47	4
18	0 36	0 39	0 42	0 45	0 48	0 50	0 52	0 54	0 55	0 56	0 56	4
24	0 37	0 41	0 45	0 48	0 52	0 55	0 57	I 0	I 2	I 4	I 5	3
30	0 38	0 42	0 47	0 50	0 55	0 58	I 2	I 5	I 8	I 10	I 12	3
36	0 38	0 42	0 47	0 52	0 57	I 1	I 5	I 9	I 13	I 16	I 19	2
42	0 37	0 42	0 47	0 52	0 58	I 3	I 7	I 12	I 16	I 20	I 24	1
48	0 35	0 40	0 46	0 52	0 57	I 3	I 9	I 14	I 19	I 24	I 28	1
54	0 33	0 38	0 44	0 50	0 56	I 3	I 9	I 14	I 20	I 26	I 31	6
1 Sex.	0 29	0 35	0 41	0 48	0 54	I 1	I 7	I 14	I 20	I 26	I 32	5Se
6	0 25	0 31	0 38	0 44	0 51	0 58	I 5	I 12	I 19	I 26	I 32	5
12	0 21	0 27	0 33	0 40	0 47	0 54	I 0	I 9	I 17	I 24	I 31	48
18	0 15	0 21	0 27	0 34	0 41	0 49	0 57	I 5	I 13	I 21	I 29	42
24	0 10	0 15	0 21	0 28	0 35	0 43	0 51	0 59	I 7	I 16	I 24	36
30	0 3	0 8	0 14	0 21	0 28	0 36	0 44	0 52	I 1	I 10	I 19	30
36	add. — 0 4	0 1 add.	0 1 adde	0 13	0 20	0 28	0 36	0 44	0 54	I 3	I 12	24
42	0 11	0 7	0 2	0 4 add.	0 11	0 19	0 27	0 36	0 45	0 55	I 4	18
48	0 19	0 15	0 1.0	0 1	0 2 add —	0 9 add. —	0 17	0 26	0 35	0 45	0 55	1
54	0 27	0 24	0 20	0 14	0 8	0 1	0 7 add.	0 15	0 25	0 34	0 44	6
2 Sex.	0 35	0 33	0 29	0 24	0 19	0 12	0 4	0 4 - addc -	0 13	0 23	0 33	4Sa
6	0 43	0 41	0 38	0 34	0 29	0 23	0 16	0 :8	0 1 add. —	0 11 add. —	0 20	54
12	0 51	0 50	0 48	0 45	0 40	0 35	0 28	0 21	0 12	0 3	0 7 adde	48
18	0 59	0 59	0 58	0 55	0 51	0 46	0 40	0 33	0 25	0 11	0 7	42
24	I 7	I 8	I 7	I 5	I 2	0 58	0 53	0 46	0 38	0 30	0 21	3
30	I 14	I 16	I 16	I 15	I 13	I 9	I 5	0 59	0 52	0 44	0 35	3
36	I 21	I 24	I 24	I 25	I 23	I 21	I 17	I 12	I 5	0 58	0 50	2
42	I 27	I 31	I 32	I 34	I 33	I 31	I 28	I 24	I 18	0 12	I 4	1
48	I 33	I 37	I 39	I 42	I 42	I 41	I 39	I 36	I 31	I 25	I 18	1
54	I 38	I 43	I 45	I 49	I 50	I 51	I 49	I 47	I 43	I 37	I 31	6
3 Sex.	I 42	I 48	I 51	I 56	I 58	I 59	I 59	I 57	I 54	I 50	I 44	0
Coæquat.	subtr sex — 2 30	subtr. sex — 0 2 27	subtr sex — 0 2 24	subtr. sex — 0 2 21	subtr. sex — 0 2 18	subtr. sex — 0 2 15	subtr. sex — 0 2 12	subtr. sex — 0 2 9	subtr. sex — 0 2 6	subtr. sex — 0 2 3	subtr. sex — 0 2 0	3Se

compoſita ex Æquat. Eccentr. & variatione Tychonica.

Ano. ☽	Diſtantia vera ☽ à ☉ vel ab ejus ☍ ſex — o 0 30 add. — Gr. /	ſex — o 0 33 add. — Gr. /	ſex — o 0 36 add. — Gr. /	ſex — o 0 39 add — Gr. /	ſex — o 0 42 add. — Gr. /	ſex — o 0 45 add. — Gr. /	ſex — o 0 48 add. — Gr. /	ſex — o 0. 51 add. — Gr. /	ſex. — o 0. 54 add. — Gr. /	ſex. — o 0. 57 add. — Gr. /	ſex. — o I 0 add — Gr. /	Anom. ☽
3 Sex.												
0	I. 42	I 48	I 53	I 56	I 58	I 59	I 59	I. 57	I. 54	I. 50	I 44	3 Sex
6	I 46	I 53	I 58	2 2	2 5	2 7	2 7	2. 6	2. 4	2. 1	I. 56	54
12	I 49	I 56	2 2	2 7	2 11	2 13	2 15	2. 14	2. 13	2. 11	2. 7	48
18	I 51	I 58	2 5	2 11	2 15	2 19	2 21	2. 22	2. 21	2. 20	2. 17	42
24	I 52	2 0	2 7	2 14	2 19	2 23	2 26	2. 28	2. 28	2. 27	2. 25	36
30	I 52	2 0	2 8	2 15	2 21	2 26	2 30	2. 32	2. 34	2. 33	2. 32	30
36	I 51	2 0	2 8	2 16	2 22	2 28	2 32	2. 35	2. 38	2. 38	2. 38	24
42	I 49	I 59	2. 7	2 15	2 22	2 28	2 33	2. 37	2. 40	2. 42	2. 42	18
48	I 47	I 57	2 6	2 14	2 21	2 28	2 33	2. 38	2. 41	2. 44	2. 45	12
54	I 44	I 54	2 3	2 11	2 19	2 26	2 32	2. [illegible]7	2. 41	2. 44	2. 46	6
4 Sex	I 40	I 50	I 59	2 8	2 16	2 23	2 30	2. 35	2. 40	2. 44	2. 46	2 Sex.
6	I 35	I 45	I 54	2 3	2 12	2 19	2 26	2. 32	2. 37	2. 42	2. 45	54
12	I 30	I 40	I 49	I 5[illegible]	2 6	2 14	[illegible]	2. 2[illegible]	2. 33	2. 38	2. 42	48
18	I 24	I 34	I 43	I 52	2 0	2 8	2 15	2. 22	2. 28	2. 33	2. 37	42
24	I 18	I 27	I 36	I 45	I 53	2 1	2 9	2. 16	2. 22	2. 27	2. 32	36
30	I 12	I 20	I 29	I 38	I 46	I 54	2 1	2. 8	2. 14	2. 20	2. 25	30
36	I 5	I 13	I 21	I 29	I 37	I 45	I 53	2. 0	2. 6	2. 12	2. 17	24
42	0 58	I 5	I 13	I 21	I 29	I 36	I 43	I. 51	I. 57	2. 3	2. 8	18
48	0 50	0 57	I 5	I 12	I 20	I 27	I 34	I. 41	I. 47	I. 53	I. 58	12
54	0 43	0 49	0 56	I 3	I 10	I 17	I 24	I. 30	I. 36	I. 42	I. 48	6
5 Sex	0 35	0 41	0 47	0 54	I 0	I 7	I 13	I. 19	I. 25	I 31	I. 37	1 Sex.
6	0 28	0 33	0 38	0 44	0 50	0 56	I 2	I 8	I 14	I. 20	I. 25	54
12	0 20	0 25	0 30	0 35	0 40	0 46	0 51	0. 57	I. 2	I 8	I. 13	48
18	0 13	0 17	0 21	0 26	0 30	0 35	0 40	0. 45	0. 50	0. 56	I. 0	42
24	0 6	0 9	0 13	0 16	0 21	0 25	0 29	0. 34	0. 38	0. 43	0. 48	36
	ſubt.—											
30	0. 1	0 2	0 4	0. 8	0 11	0 15	0 18	0. 22	0. 27	0. 31	0. 35	30
		ſubtr.	ſubtr.	ſubtr.								
36	0 7	0 5	0 3	0 1	0 2	0 5	0 8	0. 11	0. 15	0. 19	0. 22	24
					ſubt.—	ſubtr.	ſubt.					
42	0 13	0 12	0 11	0 9	0 8	0 5	0 2	0 ſub 0	0. 3	0 7	0 10	18
									-ſubtr.	-ſubtr.	-ſubtr.-	
48	0 18	0 18	0 18	0 17	0 16	0 14	0 12	0. 10	0 8	0 5	0 3	12
54	0 23	0 24	0 24	0 24	0 23	0 23	0 22	0. 20	0. 19	0. 17	0. 14	6
0	0 26	0 29	0 30	0 30	0 31	0 31	0 30	0. 30	0. 28	0. 27	0. 26	0 Sex
6 Sex Co æq.	adde ſex — o 2 30	adde ſex — o 2 27	adde ſex — o 2 24	adde ſex — o 2 21	adde ſex — o 2 18	adde ſex — o 2 15	adde ſex — o 2. 12	adde ſex. — o 2 9	adde ſex. — o 2. 6	adde ſex. — o 2. 3	adde ſex. — o 2 0	Co æquat.

TABULA Æquationis ultimæ ☽

An. ☽	Distantia vera ☽ à ☉ ab ejus ☍											Anom. ☽
	Sex.-o I 0 subt—	sex —o I 3 subt —	sex —o I 6 subt —	sex —o I 9 subt —	sex —o I 12 subt —	sex —o I 15 subt —	sex —o I 18 subt —	sex.—o I 21 subt —	Sex.-o- I 24 subtr.-	Sex -o I. 27 subtr.	Sex.-o I. 30 subtr.	
0 Sex.	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	
0 Gr.	0 26	0 24	0 22	0 20	0 17	0 15	0 12	0 9	0 6	0 3	0 0	60
6	0 37	0 36	0 34	0 32	0 30	0 28	0 26	0 23	0 20	0 18	0 15	54
12	0 47	0 46	0 46	0 44	0 43	0 41	0 39	0 37	0 34	0 32	0 29	48
18	0 56	0 56	0 56	0 56	0 55	0 54	0 52	0 50	0 48	0 46	0 43	42
24	1 5	1 6	1 6	1 6	1 6	1 5	1 4	1 3	1 1	0 59	0 57	36
30	1 12	1 14	1 15	1 16	1 17	1 16	1 16	1 15	1 14	1 12	1 10	30
36	1 19	1 21	1 23	1 24	1 26	1 27	1 27	1 26	1 26	1 25	1 23	24
42	1 24	1 27	1 30	1 32	1 34	1 36	1 36	1 37	1 37	1 36	1 35	18
48	1 28	1 32	1 36	1 38	1 41	1 43	1 45	1 46	1 47	1 46	1 46	12
54	1 31	1 36	1 40	1 44	1 47	1 50	1 53	1 54	1 55	1 56	1 56	6
1 Sex.	1 32	1 38	1 43	1 48	1 52	1 56	1 59	2 1	2 3	2 4	2 5	5 Sex.
6	1 32	1 39	1 45	1 50	1 55	2 0	2 3	2 7	2 9	2 11	2 12	54
12	1 31	1 38	1 45	1 51	1 57	2 2	2 7	2 11	2 14	2 17	2 19	48
18	1 29	1 36	1 43	1 51	1 57	2 3	2 9	2 13	2 18	2 21	2 24	42
24	1 24	1 33	1 41	1 49	1 56	2 3	2 9	2 15	2 20	2 24	2 27	36
30	1 19	1 28	1 36	1 45	1 53	2 0	2 8	2 14	2 20	2 25	2 29	30
36	1 12	1 21	1 31	1 40	1 48	1 57	2 5	2 12	2 18	2 24	2 30	24
42	1 4	1 14	1 24	1 33	1 42	1 51	2 0	2 9	2 15	2 22	2 28	18
48	0 55	1 5	1 15	1 25	1 35	1 45	1 54	2 3	2 11	2 18	2 25	12
54	0 44	0 55	1 5	1 16	1 26	1 36	1 46	1 56	2 5	2 13	2 20	6
2 Sex.	0 33	0 43	0 54	1 6	1 16	1 26	1 37	1 47	1 57	2 6	2 14	4 Sex.
6	0 20	0 31	0 42	0 54	1 4	1 15	1 26	1 37	1 47	1 57	2 6	54
12	0 7 add.	0 18	0 29	0 40	0 51	1 2	1 14	1 25	1 36	1 47	1 57	48
18	0 7	0 4 add	0 15	0 26	0 37	0 49	1 1	1 13	1 24	1 35	1 46	42
24	0 21	0 11	adde	0 11 -add.-	0 23	0 35	0 47	0 59	1 11	1 22	1 33	36
30	0 35	0 25	0 15	0 4	0 8 add	0 20 0 4	0 32	0 44	0 56	1 8	1 20	30
36	0 50	0 40	0 30	0 19	0 8	add.	0 16	0 28	0 41	0 53	1 5	24
42	1 4	0 55	0 45	0 35	0 24	0 12	0 ad. 0	0 12 -adde-	0 25	0 37	0 50	18
48	1 18	1 10	1 1	0 51	0 40	0 28	0 16	0 4	0 8 add.	0 21 0 4	0 33	12
54	1 31	1 24	1 15	1 6	0 56	0 45	0 33	0 21	0 8	add	0 17	6
3 Sex	1 44	1 37	1 29	1 21	1 11	1 0	0 49	0 37	0 25	0 13	0 0	0
Coæquat.	subtr sex —o 2 0	subtr. sex —o 1 57	subtr sex —o 1 54	subtr. sex —o 1 51	subtr. sex —o 1 48	subtr. sex —o 1 45	subtr. sex —o 1 42	subtr. sex—o 1 39	subtr. sex—o 1 36	subtr. Sex.-o 1 33	Adde Sex -o 1 30	[illegible]

composita ex Æquat. Eccentr. & variatione Tychonica.

Ano. ☽	Distantia vera ☽ à ☉ vel ab ejus ☍											Anom. ☽
	sex —0 I 0 add. —	sex —0 I 3 add. —	sex —0 I 6 add. —	sex —0 I 9 add. —	sex —0 I 12 add. —	sex —0 I 15 add. —	sex —0 I 18 add. —	sex. —0 I. 21 add. —	sex. —0 I. 24 add. —	sex. —0 I. 27 add. —	sex. —0 I 30 add —	
3 Sex	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	Gr. /	
0	I. 44	I 37	I 29	I 21	I 11	I 0	0 49	0. 37	0. 25	0. 13	0 0	3 Sex
6	I 56	I 50	I 43	I 35	I 26	I 16	I 5	0 54	0. 42	0. 29	0. 17	54
12	2 7	2 2	I 56	I 48	I 40	I 30	I 20	I. 9	0. 58	0. 46	0. 33	48
18	2 17	2 12	2 7	2 0	I 53	I 44	I 35	I. 24	I. 13	I. 2	0. 50	42
24	2 25	2 22	2 17	2 11	2 5	I 57	I 48	I. 38	I. 28	I. 17	I. 5	36
30	2 32	2 30	2 26	2 21	2 15	2 8	2 0	I. 51	I. 41	I. 31	I. 20	30
36	2 38	2 36	2 34	2 30	2 24	2 18	2 11	2. 3	I. 54	I. 44	I. 33	24
42	2 42	2 42	2 40	2 36	2 32	2 27	2 20	2. 13	2. 5	I. 56	I. 46	18
48	2 45	2 45	2 44	2 42	2 38	2 34	2 28	2. 22	2. 14	2. 6	I. 57	12
54	2 46	2 47	2 47	2 45	2 43	2 39	2 35	2. 29	2. 22	2. 15	2. 6	6
4 Sex	2 46	2 48	2 48	2 47	2 46	2 43	2 39	2. 34	2. 29	2. 22	2. 14	2 Sex
6	2 45	2 47	2 48	2 48	2 47	2 45	2 42	2. 38	2. 33	2 27	2. 20	54
12	2 42	2 44	2 46	2 47	2 47	2 46	2 44	2. 40	2. 37	2. 31	2. 25	48
18	2 37	2 41	2 43	2 45	2 45	2 45	2 43	2. 41	2. 38	2. 33	2. 28	42
24	2 32	2 36	2 39	2 41	2 42	2 42	2 41	2. 40	2. 37	2. 34	2. 30	36
30	2 25	2 29	2 33	2 35	2 37	2 38	2 38	2. 37	2. 35	2. 33	2. 29	30
36	2 17	2 22	2 25	2 29	2 31	2 32	2 33	2. 23	2. 32	2. 30	2. 27	24
42	2 8	2 13	2 17	2 21	2 24	2 26	2 27	2. 27	2. 27	2. 26	2. 24	18
48	I 58	2 3	2 8	2 12	2 15	2 17	2 19	2. 20	2. 21	2. 20	2. 19	12
54	I 48	I 53	I 58	2 2	2 5	2 8	2 11	2. 12	2. 13	2. 13	2. 12	6
5 Sex.	I 37	I 42	I 47	I 51	I 55	I 58	2 1	2. 3	2. 4	2. 5	2. 5	1 Sex.
6	I 25	I 30	I 35	I 39	I 43	I 47	I 50	I. 52	I. 54	I 55	I. 56	54
12	I 13	I 18	I 23	I 27	I 31	I 35	I 38	I 41	I. 43	I. 45	I. 46	48
18	I 0	I 5	I 10	I 14	I 18	I 22	I 25	I. 28	I. 31	I. 33	I. 35	42
24	0 48	0 52	0 57	I 1	I 5	I 9	I 12	I. 16	I. 18	I. 21	I. 23	36
30	0 35	0 39	0 44	0 48	0 52	0 55	0 59	I. 2	I. 5	I. 8	I. 10	30
36	0 22	0 26	0 30	0 34	0 38	0 41	0 45	0. 48	0. 51	0. 54	0. 57	24
42	0. 10	0 13	0 17	0 20	0 24	0 27	0 31	0. 34	0. 37	0. 40	0. 43	18
48	sub. — 0 3	0 0 subtr	0 0 subtr.	0. 7 subtr	0 10 subt.	0 13 subtr.	0 16	0. 20	0. 23	0 26	0. 29	12
54	0 14	0 12	0 4	0 7	0 4	0 1	0 2 subt.	0. 5 subtr.	0 8 subtr.	0 12 subtr.	0. 15	6
6 sex.	0 26	0 24	0 22	0 20	0 17	0 15	0. 12	0. 9	0. 6	0 3	0 0	0 Sex
Co-	adde sex —0	adde sex —0	adde sex —0 I 54	adde sex —0 I 51	adde sex —0 I 48	adde sex —0 I 4[illegible]	adde	adde	adde	adde	subtr.	Co-

Tab. Anomaliæ Æquinoct. & obliquitatis ☉lis.

Prima ejus pars in annis expansis.			*Prima ejus pars in annis expansis.*			*Prima ejus pars in annis expansis*		
An.	sex	o ' "	An.	sex	o ' "	An.	sex	o ' "
1	0	1.44.26	33	0	4.56.32	65	0	8. 8.38
2	0	1.50.44	34	0	5. 2.50	66	0	8.14.28
3	0	1.56.33	35	0	5. 8.40	67	0	8.20.4[illegible]
4	0	2. 2.51	36	0	5.14.29	68	0	8.26.35
5	0	2. 8.41	37	0	5.20.47	69	0	8.32.25
6	0	2.14.30	38	0	5.26.37	70	0	8.38.43
7	0	2.20.48	39	0	5.32.26	71	0	8.44.32
8	0	2.26.38	40	0	5.38.44	72	0	8.50.50
9	0	2.32.28	41	0	5.44.34	73	0	8.56.40
10	0	2.38.45	42	0	5.50.52	74	0	9. 2.29
11	0	2.44.35	43	0	5.56.42	75	0	9. 8.47
12	0	2.50.25	44	0	6. 2.31	76	0	9.14.37
13	0	2.56.43	45	0	6. 8.49			
14	0	3. 2.32	46	0	6.14.39			
15	0	3. 8.50	47	0	6.20.29			
16	0	3.14.40	48	0	6.26.46			
17	0	3.20.29	49	0	6.32.34			
18	0	3.26.47	50	0	6.38.24			
19	0	3.32.37	51	0	6.44.42			
20	0	3.38.26	52	0	6.50.31			
21	0	3.44.44	53	0	6.56.49			
22	0	3.50.34	54	0	7. 2.39			
23	0	3.56.52	55	0	7. 8.28			
24	0	4. 2.42	56	0	7.14.46			
25	0	4. 8.31	57	0	7.20.36			
26	0	4.14.49	58	0	7.26.25			
27	0	4.20.39	59	0	7.32.43			
28	0	4.26.29	60	0	7.38.33			
29	0	4.32.46	61	0	7.44.51			
30	0	4.38.35	62	0	7.50.41			
31	0	4.44.25	63	0	7.56.30			
32	0	4.50.43	64	0	8. 2.48			

Secunda pars Tab in annis collectis.

Anni	sex.	Gr. ' "	Anni	sex	Gr. ' "
76	0	7.36. 0	1292	2	9.11.57
152	0	15. 1.20	1368	2	16.47.56
228	0	22.48. 0	1444	2	24.23.56
304	0	30.24. 0	1520	2	31.59.56
380	0	38. 0. 0	1596	2	39.35.56
456	0	45.35.59	1672	2	47.11.56
532	0	53.11.59	1748	2	54.47.55
608	1	0.47.59	1824	3	2.23.55
684	1	8.23.59	1900	3	9.59.55
760	1	15.59.58	1976	3	19.31.54
836	1	23.35.58	2052	3	25.11.54
912	1	31.11.58	2128	3	32.47.54
988	1	38.47.58	2204	3	40.23.52
1064	1	46.23.57	2280	3	47.59.53
1140	1	53.59.57	2356	3	55.35.13
1216	2	1.35.57	2432	4	3.11.52
			2508	4	10.47.52
			2584	4	18.23.52
			2660	4	25.59.52
			2736	4	33.35.52
			2812	4	41.11.51
			2888	4	48.47.51
			2964	4	56.23.51
			3040	5	3.59.51
			3116	5	11.35.51
			3192	5	19.11.51
			3268	5	26.47.51
			3344	5	34.23.50
			3420	5	41.59.50
			3496	5	49.35.50
			3572	5	57.11.50
			3648	0	4.47.50

Secunda pars Tabulæ in annis collectis

Anni	Ær. Ch	sex.	° ′ ″
3724		0	12.23.50
3800		0	19.59.49
3876		0	27.35.49
3952	3	0	35.11.49
4028	79	0	42.47.49
4104	155	0	50.23.49
4180	231	0	57.59.49
4256	307	1	5. 35.49
4332	383	1	13.11.48
4408	4[illegible]9	1	20.47 48
4484	535	1	28.23.48
4560	611	1	35.59.48
4636	68[illegible]	1	43.35.47
4712	763	1	[illegible]1.11.47
4788	839	1	58.47.47
4864	915	2	6. 23.46
4940	991	2	13.59.46
5016	106[illegible]	2	21 3[illegible].46
5092	1143	2	29.11 45
5168	1219	2	36 47.45
5244	1295	2	4.23 45
5320	1371	2	51.59.44
5396	1447	2	59.35.44
5472	1523	3	7. 10.43
5548	1599	3	14.46.43
5624	1675	3	22.22.43
5700	1751	3	29 58.42
5776	1827	3	37.35.42

Tertia pars T.

Novilunia

Mēſ.	′ ″
1	0.30
2	1. 0
3	1.29
4	1.58
5	2.27
6	2.56
7	3.25
8	3.54
9	4.23
10	4.51
11	5.20
12	5.49
13	6.17

Plenilunia

Ple	′ ″
1	0. 15
2	0. 45
3	1. 14
4	1 43
5	2. 12
6	2. 41
7	3. 10
8	3. 39
9	4. 8
10	4. 36
11	5. 5
12	5. 34
13	6. 2

NB. Connectitur Tab. A hîc cum T. quod te benevole Lector non turbet.

Tab. reductionis ☽ à propr. orbita ad Eclipticam

mot.	Verus	0 ſ. 0 g 3 ſ 0 g m. ſ.	0 ſ. 30 g 3 ſ 30 g mi ſe	1 ſ. 0 g 4 ſ 0 g mi. ſe	mot.	Verus
0	30	0. 0	6 6	6 5	60	30
1	31	0.15	6 12	5. 57	59	29
2	32	0.30	6 18	5 48	58	28
3	33	0.45	6 24	5 39	57	27
4	34	0.59	6 29	5 30	56	26
5	35	1.13	6 35	5 21	55	25
6	36	1.27	6 40	5 12	54	24
7	37	1.42	6 44	5 1	53	23
8	38	1.56	6 47	4 51	52	22
9	39	2.10	6 51	4 40	51	21
10	40	2.24	6 54	4 29	50	20
11	41	2.38	6 56	4 18	49	19
12	42	2.52	6 57	4 7	48	18
13	43	3. 6	6 58	3 55	47	17
14	44	3 19	6 59	3 43	46	16
15	45	3.31	7 0	3 31	45	15
16	46	3.43	6 [illegible]9	3 18	44	14
17	47	3.56	6 58	3 [illegible]	43	13
18	48	4. 8	6 57	2 51	42	12
19	49	4.19	6 56	2 38	41	11
20	50	4 30	6 54	2 23	40	10
21	51	4.41	6 51	2 9	39	9
22	52	4.52	6 47	1 55	38	8
23	53	5. 2	6 44	1 41	37	7
24	54	5.13	6 40	1 26	36	6
25	55	5.22	6 35	1 12	35	5
26	56	5.31	6 29	0 58	34	4
27	57	5.40	6 23	0 45	33	3
28	58	5.49	6 17	0 30	32	2
29	59	5.58	6 11	0 15	31	1
30	60	6. 6	6 5	0 0	30	0
Lu.	Lat	5 ſ. 30 g 2 ſ. 30 g	5 ſ. 0 g. 2 ſ. 0 g	4 ſ. 30 g 1 ſ. 30 g	Lu.	Lat

Tab. prosthaphæreseon Æqu. ad dena usq; scrup. resoluta.

gr. & min.	0 sex. æquat. æqui. su ′ ″	1. sexag. æquatio æquin. su ′ ″	2 sexag. æquatio æquin. su ′ ″	gr. & min.
0	0. 0	23 36	23 46	60
10	0. 5	23 38	23 44	50
20	0. 9	23 41	23 41	40
30	1. 14	23 43	23 39	30
40	0. 19	23 45	23 36	20
50	0. 23	23 48	23 34	10
1	0. 28	23 50	23 31	59
10	0. 33	23 52	23 29	50
20	0. 37	23 55	23 26	40
30	0. 42	23 57	23 24	30
40	0. 47	23 59	23 21	20
50	0 51	24 2	23 19	10
2	0. 56	24 4	23 16	58
10	1. 1	24 6	23 13	50
20	1. 5	24 8	23 11	40
30	1. 10	24 10	23 8	30
40	1. 15	24 13	23 5	20
50	1. 19	24 15	23 3	10
3	1. 24	24 17	23 0	57
10	1. 29	24 19	22 57	50
20	1. 33	24 21	22 55	40
30	1. 38	24 23	22 52	30
40	1 43	24 26	22 49	20
50	1. 47	24 28	22 47	10
4	1. 52	24 30	22 44	56
10	1. 57	24 32	22 42	50
20	2. 1	24 34	22 39	40
30	2. 6	24 36	22 37	30
40	2. 11	24 39	22 34	20
50	2. 15	24 41	22 32	10
5	2. 20	24 43	22 29	55
10	2. 25	24 45	22 26	50
20	2. 29	24 48	22 23	40
30	2. 34	24 50	22 21	30
40	2. 39	24 52	22 18	20
50	2. 43	24 55	22 15	10
6	2 48	24 57	22 12	54
gr. & minu.	adde 5. sex	adde 4 sex	adde 3 sex.	gra. & minu.

gr. & min.	0 sexa. æquat. æqui. su ′ ″	1. sexa. æquat æqui. s. ′ ″	2 Sexa. æquat. æqui. s. ′ ″	g. & m.
6	2. 48	24.57	22.12	54
10	2. 53	24.59	22. 9	50
20	2. 57	25. 1	22. 6	40
30	3. 2	25. 3	22. 4	30
40	3. 7	25. 5	22. 1	20
50	3. 11	25. 7	21.58	10
7	3. 16	25. 9	21.55	53
10	3. 21	25.11	21.52	50
20	3. 25	25.13	21.49	40
30	3. 30	25.14	21.46	30
40	3. 35	25.16	21 43	20
50	3. 39	25.18	21.40	10
8	3. 44	25.20	21.37	52
10	3. 49	25.22	21.34	50
20	3. 53	25.23	21.31	40
30	3. 58	25.25	21.29	30
40	4. 3	25.27	21.26	20
50	4. 7	25.29	21.23	10
9	4. 12	25.30	21.20	51
10	4. 17	25.32	21.17	50
20	4 [illegible]	25.33	21.14	40
30	4. 26	25.35	21.11	30
40	4. 31	25.37	21. 8	20
50	4 35	25.38	21. 5	10
10	4. 40	25.40	21. 2	50
10	4. 45	25.41	20.59	50
20	4. 49	25.43	20.56	40
30	4. 54	25.44	20 53	30
40	4 59	25 46	20 49	20
50	5. 3	25.47	20 46	10
11	5. 8	25.49	20.43	49
10	5. 13	25.50	20.40	50
20	5. 17	25.52	20.37	40
30	5. 22	25.53	20.34	30
40	5. 27	25.54	20 30	20
50	5. 31	25.56	20 27	10
12	5. 36	25.57	20.24	48
gra. & minu.	adde 5 sex.	adde 4 sex.	adde 3 sex.	g. & m.

Tabula prosthaphæreseon Æquinoctiorum.

gra. & minu.	0 sex. æquat. æqui. su	1 sex. æquat. æqui. su	2 sex. æquat. æqui. su	gr. & min.
	′ ″	′ ″	′ ″	
12	5. 36	25.57	20.24	48
10	5. 41	25.58	20.21	50
20	5 45	25.59	20.18	40
30	5. 50	26. 0	20.15	30
40	5. 55	26. 2	20.11	20
50	5 59	26. 3	20. 8	10
13	6. 4	26. 4	20. 5	47
10	6. 9	26. 5	20. 2	50
20	6 13	26. 6	19.58	40
30	6. 18	26. 7	19.55	30
40	6. 23	26. 9	19.52	20
50	6 27	26.10	19 48	10
14	6. 32	26.11	19.45	46
10	6. 37	26.12	19.42	50
20	6 41	26.13	19.38	40
30	6. 46	26.14	19.35	30
40	6. 51	26 15	19.32	20
50	6. 55	26 16	19.28	19
15	7. 0	26.17	19.25	45
10	7. 5	26.18	19 22	50
20	7 9	26.19	19.18	40
30	7. 14	26.19	19.15	30
40	7. 19	26.20	19.12	20
50	7 23	26 21	19 8	10
16	7. 28	26.22	19. 5	44
10	7. 32	26.23	19. 2	50
20	7 37	26.24	18.58	49
30	7. 41	26.24	18.55	30
40	7. 46	26.25	18.51	20
50	7 50	26 26	18 48	10
17	7. 55	26.27	18.44	43
10	7. 59	26.28	18.41	50
20	8 4	26 28	18 37	40
30	8. 8	26.29	18 34	30
40	8 13	26.30	18.30	20
50	8 17	26.30	18.27	10
18	8. 22	26.31	18.23	42
gra. & minu.	adde 5 sex.	adde 4 sex.	adde 3 sex.	gra. & minu.

gr. & min.	0 sex. æquat. æqui. su	1 sex. æquat. æqui su	2 sexag æquat. æqui. su	gr. & min.
	′ ″	′ ″	′ ″	
18	8. 22	26.31	18.23	42
10	8. 26	26.32	18.20	50
20	8 31	26 32	18.16	40
30	8. 35	26.33	18.13	30
40	8. 40	26.34	18. 9	20
50	8 44	26.34	18. 6	10
19	8 49	26.35	18. 2	41
10	8. 53	26.36	17.58	50
20	8 58	26.37	17.55	40
30	9. 2	26.37	17.51	30
40	9. 7	26.38	17.47	20
50	9. 11	26.39	17.44	10
20	9. 16	26 40	17.40	40
10	9. 20	26.41	17.36	50
20	9 25	26.41	17.33	40
30	9. 29	26.42	17.29	30
40	9. 34	26.43	17.25	20
50	9 38	26 43	17.22	10
21	9. 43	26.44	17.18	9
10	9. 47	26.45	17.14	50
20	9. 52	26.45	17.11	40
30	9. 56	26.46	17. 7	30
40	10. 1	26.47	17. 3	20
50	10 5	26 47	17. 0	10
22	10 10	26.48	16.56	38
10	10.14	26.49	16.52	50
20	10.19	26 49	16 48	40
30	10.23	26.50	16 45	30
40	10.27	26.51	16.41	20
50	10 32	26.51	16.37	10
23	10.36	26.52	16.33	37
10	10.40	26.52	16.29	50
20	10 45	26.53	16 26	40
30	10.49	26.53	16.22	30
40	10 53	26.53	16.18	20
50	10 58	26.54	16 15	10
24	11. 2	26.54	16.11	36
gra. & minu.	adde 5 sex	adde 4 sex.	adde 2 sex.	gr. & min.

Tabula prosthaphæreseon Æquinoctiorum.

gr. & min.	0 sex. æquat. æqui. su	1 sex. æquat. æqui. su	2 sex. æquat. æqui. su	gr. & min.
	' ''	' ''	' ''	
24	11. 2	26.54	16.11	36
10	11. 6	26.54	16. 7	50
20	11.11	26.55	16. 3	40
30	11.15	26.55	16. 0	30
40	11.20	26.56	15.56	20
50	11.24	26.56	15.52	10
25	11.29	26.57	15.48	35
10	11.33	26.57	15.44	50
20	11.38	26.58	15.40	40
30	11.42	26.58	15.37	30
40	11.46	26.58	15.33	20
50	11.51	26.59	15.29	19
26	11.55	26.59	15.25	34
10	11.59	26.59	15.21	50
20	12. 3	27. 0	15.17	49
30	12. 7	27. 0	15.13	30
40	12.12	27. 0	15. 9	20
50	12.16	27. 1	15. 5	10
27	12.20	27. 1	15. 1	33
10	12.24	27. 1	14.57	50
20	12.28	27. 2	14.53	40
30	12.32	27. 2	14.49	30
40	12.37	27. 2	14.44	20
50	12.41	27. 3	14.40	10
28	12.45	27. 3	14.36	32
10	12.49	27. 3	14.32	50
20	12.53	27. 3	14.28	40
30	12.57	27. 3	14.24	30
40	13. 2	27. 4	14.19	20
50	13. 6	27. 4	14.15	10
29	13.10	27. 4	14.11	31
10	13.14	27. 4	14. 7	50
20	13.18	27. 4	14. 3	40
30	13.22	27. 4	13.59	30
40	13.27	27. 5	13.54	20
50	13.31	27. 5	13.50	10
30	13.35	27. 5	13.46	30
gra. & minu.	adde 5 sex.	adde 4 sex.	adde 3 sex.	gra. & minu.

gr. & min.	0 sex. æquat. æqui. su	1 sex. æquat. æqui. su	2 sex. æquat. æqui. su	gr. & min.
	' ''	' ''	' ''	
30	13.35	27. 5	13.46	30
10	13.39	27. 5	13.42	50
20	13.53	27. 5	13.38	40
30	13.57	27. 5	13.34	30
40	14. 2	27. 4	13.29	20
50	14. 4	27. 4	13.25	10
31	14. 5	27. 4	13.21	29
10	14. 6	27. 4	13.17	50
29	14. 8	27. 4	13.12	40
30	14.12	27. 4	13. 8	30
40	14.17	27. 3	13. 4	20
50	14.21	27. 3	12.59	10
32	14.25	27. 3	12.55	28
10	14.29	27 3	12.51	50
20	14.33	27. 3	12.46	49
30	14.37	27. 3	12.42	30
40	14.41	27. 2	12.38	20
50	14.45	27. 2	12.33	10
33	14.49	27. 2	12.29	27
10	14.53	27. 2	12.25	50
20	14.57	27. 2	12.20	40
30	15. 1	27. 2	12.16	30
40	15. 5	27. 1	12.12	20
50	15. 9	27. 1	12. 7	10
34	15.13	27. 1	12. 3	26
10	15.17	27. 1	11.59	50
20	15.21	27 1	11.55	40
30	15.24	27. 1	11.50	30
40	15.28	27. 1	11.46	20
50	15.32	27. 0	11.42	10
35	15.36	27. 0	11.37	25
10	15.40	27. 0	11.33	50
20	15.44	26.59	11.28	49
30	15.47	26.59	11.24	30
40	15.51	26.59	11.20	20
50	15.55	26.58	11.15	19
36	15.59	26.58	11.11	24
gra. & minu.	adde 5 sex	adde 4 sex.	adde 3 sex.	gra. & minu.

Tabula proſthaphæreſeon Æquinoctiorum.

gra. & minu.	0 ſex æquat. æqui. ſu	1 ſex. æquat. æqui. ſu	2 ſex. æquat. æqui ſu	gr. & min.
	′ ″	′ ″	′ ″	
36	15.59	26.58	11.11	24
10	16. 3	26.58	11. 7	50
20	16. 6	26.57	11. 2	40
30	16.10	26.57	10.58	30
40	16.14	26.57	10.53	20
50	16.17	26.56	10.49	10
37	16.21	26.56	10.44	23
10	16.25	26.56	10.40	50
20	16.28	26.55	10.35	40
30	16.32	26.55	10.31	30
40	16.36	26.54	10.26	20
50	16.39	26.54	10.22	10
38	16.43	26.53	10.17	22
10	16.47	26.52	10.13	50
20	16.50	26.52	10. 8	40
30	16.54	26.51	10. 4	30
40	16.58	26.50	9.59	20
50	17. 1	26.50	9.55	10
39	17. 5	26.49	9.50	21
10	17. 9	26.48	9.45	50
20	17.12	26.48	9.41	40
30	17.16	26.47	9.36	30
40	17.20	26.46	9.31	20
50	17.23	26.46	9.27	10
40	17.27	26.45	9.22	20
10	17.31	26.44	9.18	50
20	17.34	26.43	9.13	40
30	17.38	26.43	9. 9	30
40	17.42	26.42	9. 4	20
50	17.45	26.41	9. 0	10
41	17.49	26.40	8.55	19
10	17.52	26.40	8.50	50
20	17.56	26.39	8.46	40
30	17.59	26.39	8.41	30
40	18. 3	26.38	8.36	20
50	18. 6	26.38	8.32	10
42	18.10	26.37	8.27	18
gra. & minu	adde	adde	adde	gra & minu.
	5 ſex.	4 ſex.	3 ſex.	

gr. & min.	0 ſex. æquat. æqui ſu	1 ſex. æquat. æqui. ſu	2 ſexag. æquat. æqui. ſu	gr. & min.
	′ ″	′ ″	′ ″	
42	18.10	26.37	8. 27	18
10	18.13	26.36	8. 22	50
20	18.17	26.35	8. 18	40
30	18.20	26.35	8. 13	30
40	18.24	26.34	8. 9	20
50	18.27	26.33	8. 4	10
43	18.31	26.32	8. 0	17
10	18.34	26.31	7. 56	50
20	18.38	26.30	7. 51	40
30	18.41	26.30	7. 47	30
40	18.45	26.29	7. 42	20
50	18.48	26.28	7. 38	10
44	18.52	26.27	7. 33	16
10	18.55	26.26	7. 28	50
20	18.59	26.25	7. 24	40
30	19. 2	26.25	7. 19	30
40	19. 6	26.24	7. 14	20
50	19. 9	26.23	7. 10	10
45	19.13	26.22	7. 5	15
10	19.16	26.21	7. 0	50
20	19.20	26.20	6. 55	40
30	19.23	26.19	6. 51	30
40	19.26	26.17	6. 46	20
50	19.30	26.16	6. 41	10
46	19.33	26.15	6. 36	14
10	19.36	26.14	6. 31	50
20	19.39	26.13	6. 26	40
30	19.42	26.12	6. 22	30
40	19.46	26.10	6. 17	20
50	19.49	26. 9	6. 12	10
47	19.52	26. 8	6. 7	13
10	19.55	26. 7	6. 2	50
20	19.58	26. 6	5. 57	40
30	20. 1	26. 5	5. 52	30
40	20. 5	26. 3	5. 47	20
50	20. 8	26. 2	5. 42	10
48	20.11	26. 1	5. 37	12
gra & minu.	adde	adde	adde	gr. & min.
	5 ſex	4 ſex	3 ſex.	

Tabula prophaphæreseon Æquinoctiorum.

gr. & min.	0 sex. æquat. æqui. su	1 sex. æquat. æqui. su	2 sex. æquat. æqui su	gr. & min.
	′ ″	′ ″	′ ″	
48	20.11	26. 1	5. 37	12
10	20.14	26. 0	5. 32	50
20	20.17	25.59	5. 28	40
30	20.20	25.58	5. 23	30
40	20.24	25.56	5. 18	20
50	20.27	25.55	5. 14	10
49	20.30	25.54	5. 9	11
10	20.33	25.53	5. 5	50
20	20.37	25.52	5. 0	49
30	20.40	25.51	4. 56	30
40	20.43	25.49	4. 52	20
50	20.47	25.48	4. 47	10
50	20.50	25.47	4. 43	10
10	20.53	25.46	4. 38	50
20	20.56	25.44	4. 34	40
30	20.59	25.43	4. 29	30
40	21. 3	25.41	4. 24	20
50	21. 6	25.40	4. 20	10
51	21. 9	25.38	4. 15	9
10	21.12	25.36	4. 10	50
20	21.15	25.35	4. 5	40
30	21.18	25.33	4. 1	30
40	21.21	25.31	3. 56	20
50	21.24	25.30	3. 51	10
52	21.27	25.28	3. 46	8
10	21.30	25.26	3. 41	50
20	21.33	25.24	3. 37	40
30	21.36	25.23	3. 32	30
40	21.39	25.21	3. 27	20
50	21.42	25.19	3. 23	10
53	21.45	25.17	3. 18	7
10	21.48	25.15	3. 13	50
20	21.51	25.13	3. 8	40
30	21.53	25.11	3. 4	30
40	21.56	25. 9	2. 59	20
50	21.59	25. 7	2. 54	10
54	22. 2	25. 5	2. 49	6
gra. & minu.	adde 5 sex.	adde 4 sex.	adde 3 sex.	gra & minu

gr. & min.	0 sex. æquat. æqui. su	1 sex. æquat. æqui. su	2 sex. æquat æqui su	gr. & min.
	′ ″	′ ″	′ ″	
54	22. 2	25. 5	2. 49	6
10	22. 5	25. 3	2. 44	50
20	22. 7	25. 1	2. 39	40
30	22.10	24.59	2. 35	30
40	22.13	24.56	2. 30	20
50	22.15	24.54	2. 25	10
55	22.18	24.52	2. 20	5
10	22.21	24.50	2. 15	50
29	22.23	24.48	2. 11	40
30	22.26	24.46	2. 6	30
40	22.29	24.43	2. 1	20
50	22.31	24.41	1. 57	10
56	22.34	24.39	1. 52	4
10	22.37	24.37	1. 47	50
20	22.39	24.35	1. 43	40
30	22.42	24.33	1. 38	30
40	22.45	24.30	1. 33	20
50	22.47	24.28	1. 29	10
57	22.50	24.26	1. 24	3
10	22.52	24.24	1. 19	50
20	22.55	24.22	1. 15	40
30	22.57	24.20	1. 10	30
40	23. 0	24.17	1. 5	20
50	23. 2	24.15	1. 1	10
58	23. 5	24.13	0. 56	2
10	23. 8	24.11	0. 51	50
20	23.10	24. 9	0. 47	40
30	23.13	24. 7	0. 42	30
40	23.16	24. 4	0. 37	20
50	23.18	24. 2	0. 33	10
59	23.21	24. 0	0. 28	1
10	23.23	23.58	0. 23	50
20	23.26	23.55	0. 19	40
30	23.28	23.53	0. 14	30
40	23.31	23.51	0. 9	20
50	23.33	23.48	0. 5	10
60	23.36	23.46	0. 0	0
gra & minu.	adde 5 sex	adde 4 sex.	adde 3 sex.	gra. & minu

Tab. Semidiametr. ☉, ☽, & umb. terræ, ac diſt. ☽ à terra in ſemidiat terræ.

Anom Solis & Lunæ.	ſemidiameter ſolis	diſt. ☽ à ter. in ſem. ter.	ſemidi. ☽ plenæ & novæ.	ſemidi. umbræ terræ	Variaum.	Anom. Solis & Lunæ.
ſex gr	′ ″	ſemid. ′	′ ″	′ ″	″	ſex. o
0 0	15. 0	58. 8	15.15	43. 0	0	6 0
0 3	15. 0	58. 8	15.15	43. 0	0	5 57
0 6	15. 0	58. 8	15.15	43. 1	0	5 54
0 9	15. 0	58. 7	15.16	43. 1	0	5 51
0 12	15. 1	58. 7	15.16	43. 2	0	5 48
0 15	15. 1	58. 6	15.17	43. 3	1	5 45
0 18	15. 1	58. 5	15.18	43. 5	1	5 42
0 21	15. 1	58. 4	15.19	43. 7	1	5 39
0 24	15. 2	58. 2	15.21	43. 9	1	5 36
0 27	15. 2	58. 0	15.22	43.11	2	5 33
0 30	15. 2	57.58	15.24	43.14	2	5 30
0 33	15. 3	57.56	15.26	43.16	3	5 27
0 36	15. 3	57.54	15.28	43.19	3	5 24
0 39	15. 4	57.51	15.30	43 22	4	5 21
0 42	15. 4	57.49	15 32	43.25	4	5 18
0 45	15. 5	57.46	15.35	43 29	5	5 15
0 48	15. 5	57.43	15.37	43.33	6	5 12
0 51	15. 6	57.40	15.40	43.37	6	5 9
0 54	15. 6	57 36	15.42	43.41	7	5 6
0 57	15. 7	57.33	15 45	43.45	8	5 3
1 ſex 0	15. 7	57.29	15.47	43.49	9	5 ſe 0
1 3	15. 8	57.25	15.50	43.53	9	4 57
1 6	15. 9	57 21	15.53	43.58	10	4 54
1 9	15. 9	57.17	15.56	44. 3	11	4 51
1 12	15.10	57.12	15.59	44. 9	12	4 48
1 15	15 11	57. 8	16. 2	44.14	12	4 45
1 18	15.12	57. 3	16. 5	44.20	13	4 42
1 21	15.12	56.58	16. 8	44 25	14	4 39
1 24	15.13	56 53	16.11	44.31	15	4 36
1 27	15.14	56.48	16.14	44.37	16	4 33
1 30	15.15	56.43	16.17	44.43	17	4 30

Tab. Semidiametrorum ☉ ☽ & umb terræ ac diſtantiæ ☽ à terra in ſemidiametris terræ.

Anom Solis & Lunæ.	ſemidiameter ſolis.	diſt. ☽ à ter. in ſemi. ter.	ſemidi. ☽ plenæ & novæ	ſemidi. umbræ terræ.	Variaum.	Anom Solis & Lunæ.
ſex.gr.	′ ″	ſemid ′	′ ″	′ ″	″	ſex.gr.
1 30	15.15	56.43	16.17	44 43	17	4 30
1 33	15.15	56.38	16.20	44.49	17	4 27
1 36	15.16	56.33	16.23	44.55	18	4 24
1 39	15.17	56.28	16.26	45. 1	19	4 21
1 42	15.17	56.22	16.29	45. 7	20	4 18
1 45	15.18	56 17	16.32	45.13	20	4 15
1 48	15.19	56.12	16.35	45.19	21	4 12
1 51	15.20	56. 7	16 38	45.25	22	4 9
1 54	15.20	56. 1	16 41	45.31	23	4 6
1 57	15.21	55.56	16.43	45.38	23	4 3
2 0	15.21	55.51	16.46	45.44	24	4 0
2 3	15.22	55.46	16.48	45.50	25	3 57
2 6	15.23	55 41	16.51	45.56	25	3 54
2 9	15.24	55.36	16.53	46. 2	25	3 51
2 12	15.24	55.32	16.56	46. 7	26	3 48
2 15	15.25	55.27	16.58	46.12	26	3 45
2 18	15 25	55.23	17. 1	46.17	26	3 42
2 21	15 26	55.19	17. 3	46.22	27	3 39
2 24	15.26	55.15	17. 5	46 27	27	3 36
2 27	15.27	55.11	17. 7	46.32	27	3 33
2 30	15 27	55. 8	17. 9	46.36	27	3 30
2 33	15.28	55. 5	17.10	46.40	27	3 27
2 36	15.28	55. 3	17.12	46.44	27	3 24
2 39	15.28	55. 1	17.13	46 47	28	3 21
2 42	15.28	54 59	17.15	46.50	28	3 18
2 45	15.29	54.57	17.16	46.53	28	3 15
2 48	15 29	54.55	17.17	46.55	28	3 12
2 51	15.29	54.54	17.18	46.57	28	3 9
2 54	15.29	54.53	17.19	46.58	28	3 6
2 57	15.30	24.52	17.20	46.59	28	3 3
3 0	15.30	54.52	17.20	47. 0	28	3 0

Parallaxes Lunæ competentes integris ſemidiametris terræ in circulo altitudinis ab horizonte.

Par. ☉is me. in circ altit			52	53.	54.	55.	56	57.	58.	59	60
Gr.	m	ſ.	m. ſ.	m. ſ.	m ſ	m. ſ	m. ſ.	m. ſ.	m. ſ.	m ſ.	m. ſ.
0	3	0	66 6	64 51	63.39	62 30	61 23	60.20	59.17	58 16	57.18
1	3	0	66 6	64 51	63 39	62 29	61 23	60.19	59.17	58 16	57.18
2	3	0	66 5	64 50	63.38	62 28	61 22	60.18	59.16	58 15	57.17
3	3	0	66 4	64 50	63.38	62 28	61 21	60.17	59.15	58 14	57.16
4	2	59	66 1	64 47	63.35	62 25	61 18	60.15	59.12	58 11	57.13
5	2	59	65 57	64 43	63.31	62 21	61 14	60.11	59. 8	58 7	57. 9
6	2	59	65 52	64 38	63.26	62 16	61 10	60. 7	59. 3	58 3	57. 5
7	2	58	65 46	64 32	63.20	62 10	61 4	60 1	58.57	57 58	57. 0
8	2	58	65 38	64 24	63.12	62 3	60 57	59.54	58.50	57 51	56.53
9	2	57	65 29	64 15	63. 3	61 54	60 48	59.46	58.42	57 43	56.44
10	2	57	65 19	64 5	62.53	61 45	60 39	59.37	58.33	57 34	56.35
11	2	56	65 8	63 54	62 42	61 34	60 28	9. 27	58.23	57 24	56.25
12	2	56	64 55	63 41	62.30	61 22	60 16	59.16	58.12	57 13	56.14
13	2	55	64 41	63 28	62.17	61 9	60 3	59. 3	57.59	57 1	56. 2
14	2	54	64 26	63 14	62. 3	60 55	59 49	58.48	57. 4	56 47	55.49
15	2	54	64 10	62 57	61.47	60 39	59 34	58.32	57.30	56 32	55. 35
16	2	53	63 53	62 40	61.31	60 22	59 18	58.16	57.14	56 16	55.20
17	2	52	63 35	62 22	61.13	60 4	59 1	57.59	56.57	56 0	55. 4
18	2	51	63 15	62 3	60.54	59 45	58 42	57.40	56.40	55 43	54.47
19	2	50	62 54	61 43	60.34	59 27	58 22	57.21	56.21	55 24	54.29
20	2	50	62 32	61 21	60.12	59 6	58 1	57. 1	56. 1	55 4	54.10
21	2	49	62 8	60 58	9.49	58 44	57 40	56. 40	55.40	54.44	53. 50
22	2	48	61 44	60 34	59.26	58 21	57 18	56.18	55.18	54.22	53.28
23	2	46	61 19	60 9	59. 2	57 57	56 54	55.54	54.54	3. 59	53. 5
24	2	45	60 52	59 42	58 36	57 31	56 29	55.29	54.29	53.34	52.40
25	2	44	60 24	9. 15	58. 9	57 5	56 3	55. 4	54. 4	53. 9	52.15
26	2	42	59 55	58. 47	57.41	56 38	55 36	54.38	53.39	52.44	1,50
27	2	41	59 25	58 17	57.12	56 10	55 8	54.11	53.13	52. 18	51.25
28	2	39	58 54	57 46	56 42	55 40	54 39	53.42	52.45	51. 51	50.59
29	2	37	58 22	57 14	56.11	55 9	54 9	53.12	52.16	51.23	50.32
30	2	36	57 48	56 42	55.39	54 37	53 38	52.42	51.17	50.54	50. 5

Parallaxes Lunæ competentes integris ſemidiametris terræ in circulo altitudinis ab horizonte.

Parall. ☉lis m in circulo alt. Gr.	m. ſ	52 m. ſ	53 m. ſ	54 m. ſ	55 m. ſ	56 m. ſ	57 m. ſ	58 m. ſ	59 m. ſ	60 m. ſ
30	2. 36	57 48	56.42	55.39	54.37	53.38	52.42	51.47	50.54	50. 5
31	2. 34	57 13	56. 9	55.16	54. 4	53. 6	52.10	51.16	50.24	49.35
32	2. 32	56 38	55.24	54.32	53.30	52.33	51.37	50 44	49.52	49. 7
33	2. 30	56 2	54.58	53.57	52.55	51.59	51. 4	50.10	49.19	48.34
34	2. 29	55 25	54.21	53.21	52.20	51.24	50 30	49.35	48.46	48. 0
35	2. 27	54 46	53.43	52 43	51.44	50.48	49.55	48.59	48.12	47.25
36	2. 25	54 5	53. 4	52. 4	51. 7	50.11	49.18	48.22	47.37	46.49
37	2. 23	53 24	52.24	51.24	50.29	49.33	48.41	47.46	47. 1	46.14
38	2. 21	52 42	51.43	50.44	49.49	48.54	48. 3	47. 9	46.24	45.38
39	2. 19	52 0	51. 1	50. 3	49. 8	48.15	47.24	46.31	45.46	45. 0
40	2. 18	51 17	50.18	49.21	48.27	47.35	46.44	45.53	45. 8	44.22
41	2. 16	50 32	49.34	48.38	47.45	46.53	46. 3	45.14	44 28	43 43
42	2. 14	49 46	48.49	47.54	47. 2	46.10	45.21	44.34	43.47	43. 4
43	2. 12	48 59	48. 3	47. 9	46.18	45.27	44.38	43.52	43. 6	42.24
44	2. 9	48 11	47.16	46.23	45.23	44.43	43.54	43. 8	42.24	41.43
45	2. 7	47 23	46.29	45.36	44.46	43.58	43.12	42.23	41.41	41. 0
46	2. 5	46 34	45.41	44.48	43.59	43.12	42.28	41.44	40.58	40.18
47	2 2	45 44	44 51	44. 0	43.11	42.25	41.43	40.58	40 14	39.35
48	2. 0	44 53	44. 1	43.11	42.23	41.38	40.57	40.11	39.29	38.50
49	1. 58	44 1	43.10	42.21	41.34	40.50	40. 9	39.24	38.44	38. 5
50	1. 56	43 8	42.18	41.30	40.44	40. 1	39.20	38.37	37.58	37.19
51	1. 5	42 14	41.26	40.39	39.54	39.11	38.30	37.49	37.11	36.32
52	1. 51	41 20	40.33	39.47	39. 3	38.20	37.40	37. 0	36.23	35.45
53	1. 48	40 25	39.39	38.54	38.11	37.28	36.49	36.10	35.34	34.57
54	1. 46	39 29	38.43	38. 0	37 18	36.37	35.58	35.20	34.44	34. 9
55	1. 43	38 32	37.47	37. 5	36.24	35 45	35. 7	34.29	33.54	33.20
56	1. 41	37 34	36 50	36.10	35.30	34.52	34.15	33.38	33 4	32.30
57	1. 39	36 36	35.52	35.14	34.35	33 57	33.23	33.47	31.13	31 40
58	1. 36	35 37	34 54	34 17	33.39	33. 2	32.29	32 55	31.21	30.49
59	1. 33	34 37	33.56	33.19	32.43	32. 7	31.34	31. 1	30.28	29.57
60	1. 30	33 37	32.58	32.21	31.49	31.11	30.38	30. 6	29.35	29. 5

Parallaxes Lunæ competentes integris semidiametris terræ in circulo altitudinis ab horizonte.

Par. ☉is me. in circ alti		52	53.	54.	55.	56	57.	58.	59	60
Gr.	m f.	m. f.	m. f	m f	m. f	m. f	m. f.	m. f.	m f.	m. f
60	1 30	33 37	32 58	32.21	31 46	31 11	30.38	30. 6	29 35	29. 5
61	1 28	32 36	31 58	31 22	30 48	30 14	29.42	29.11	28 41	28.12
62	1 25	31 34	30 58	30.23	29 49	29 17	28.46	28.16	27 47	27.15
63	1 22	30 31	29 57	29.23	28 50	28 19	27 49	27.20	26 52	26.25
64	1 19	29 25	28 56	28.23	27 50	27 21	26.52	26.24	25 57	25.31
65	1 16	28 26	27 54	27.22	26 50	26 22	25. 54	25.27	25 1	24.36
66	1 14	27 22	26 51	26.21	25 50	25 23	24. 56	24.29	24 4	23.40
67	1 11	26 18	25 48	25.19	24 50	24 23	23.57	23.32	23 7	22.44
68	1 8	25 13	24 44	24.16	23 49	23 23	22. 58	22 34	22 10	21.48
69	1 5	24 8	23 40	23.13	22 48	22 22	21. 59	21.36	21 13	20.52
70	1 2	23 2	22 35	22.10	21 46	21 21	20. 59	20.37	20 15	19.55
71	0 59	21 56	21 30	21. 6	20 43	20 20	19. 59	19 38	19 17	18.58
72	0 56	20 49	20 25	20. 2	19 40	19 19	18 59	18.39	18 19	18. 0
73	0 53	19 41	19 19	18.58	18 36	18 18	17. 58	17.39	17 20	17. 2
74	0 49	18 32	18 13	17. 54	17 32	17 16	16. 56	16.38	16 20	16. 4
75	0 46	17 22	17 6	16.49	16 28	16 14	15. 53	15.36	15 20	15. 5
76	0 43	16 15	15 59	15.43	15 24	15 11	14. 50	14.35	14 20	14. 7
77	0 40	15 8	14 52	14.36	14 19	14 7	13.47	13.34	13 20	13. 8
78	0 37	14 1	13 45	13.29	13 14	13 2	12.43	12.33	12 20	12. 9
79	0 34	12 52	12 37	12.23	12 9	11 57	11.41	11.31	11 19	11. 9
80	0 31	11 43	11 29	11.16	11 4	10 52	10.39	10.29	10 18	10. 8
81	0 28	10 33	10 21	10.9	9 58	9 47	9. 36	9. 26	9 17	9. 7
82	0 25	9 23	9 13	9. 2	8 53	8 42	8. 33	8. 24	8 15	8. 7
83	0 21	8 13	8 5	7. 55	7 48	7 37	7. 29	7. 21	7 13	7. 7
84	0 18	7 3	6 57	6. 48	6 43	6 32	6. 25	6. 18	6 10	6. 6
85	0 15	6 52	5 47	5. 40	5 36	5 27	5. 21	5. 16	5. 8	5. 5
86	0 12	4 42	4 37	4. 32	4 29	4 22	4. 17	4 13	4 7	4. 4
87	0 9	3 32	3 28	3. 24	3 21	3 17	3. 13	3. 10	3 6	3. 3
88	0 6	2 21	2 18	2. 16	2 14	2 11	2. 8	2. 6	2 3	2. 2
89	0 3	1 9	1 10	1. 8	1 7	1. 5	1. 4	1. 3	1 1	1. 1
90	0 0	0 0	0 0	0. 0	0 0	0 0	0. 0	0. 0	0 0	0. 0

De vera latitudine Lunæ ad latitudinem æqualem inventam.

Si Sexagenæ fuerint duæ tunc latit. est Septentrionalis. Si quinq; tunc est Australis.

Gr.	g / //		gr. / //		gr. / //
44	1.22.36	50	0.52. 1	56	0.20.54
10	1.21.45	10	0.51.10	10	0.20. 2
20	1.20.55	20	0 50.18	20	0.19.10
30	1.20. 4	30	0.49.27	30	0.18.18
40	1.19.14	40	0.48 35	40	0.17.25
50	1.18.23	50	0 47.44	50	0.16.33
45	1.17 33	51	0.46.52	57	0.15.41
10	1.16.42	10	0.46. 1	10	0.14.59
20	1.15.52	20	0.45. 9	20	0.13.56
30	1.15. 1	30	0.44.17	30	0.13. 4
40	1.14.10	40	0.43.25	40	0.12.12
50	1.13.20	50	0 42.34	50	0.11.20
46	1.12.29	52	0.41.42	58	0.10.27
10	1.11.38	10	0.40.50	10	0. 9.35
20	1.10.48	20	0.39.58	20	0. 8.43
30	1. 9.57	30	0.39. 7	30	0. 7.50
40	1. 9. 6	40	0.38.15	40	0. 6.58
50	1. 8.15	50	0.37.23	50	0 6. 6
47	1. 7.24	53	0.36.31	59	0. 5.14
10	1. 6.33	10	0.35 39	10	0. 4.21
20	1. 5.42	20	0.34 47	20	0. 3.29
30	1. 4.51	30	0.33.55	30	0. 2.37
40	1. 4. 0	40	0.33. 3	40	0. 1.44
50	1. 3. 9	50	0.32.11	50	0. 0 52
48	1. 2.18	54	0.31.19	0	0. 0. 0
10	1. 1.27	10	0 30.27		
20	1. 0.36	20	0.29.35		
30	0.59.44	30	0.28.43		
40	0.58.53	40	0.27.51		
50	0.58. 2	50	0.26.59		
49	0.57.10	55	0 26. 7		
10	0.56.19	10	0.25.15		
20	0. 55.27	20	0.24.23		
30	0.54.36	30	0.23.31		
40	0.53.44	40	0 22.39		
50	0.52.53	50	0.21.46		

Latitudo est Septentrionalis si fuerit Sexagena 0. Australis vero in Sexagenis 3.

Gr.	gr. / //	Gr	gr. / //	Gr	gr. / //
0	0. 0. 0	20	0.27.51	40	0.55.27
10	0. 0.52	30	0.28.43	50	0 56.19
20	0. 1.44	40	0 29.35	11	0.57.10
30	0. 2.37	50	0.30.27	10	0.58. 2
40	0. 3.29	6	0.31.19	20	0.58.53
50	0. 4.21	10	0.32.11	30	0.59.44
1	0. 5.14	20	0.33. 3	40	1. 0.36
10	0. 6. 6	30	0.33.55	50	1. 1.27
20	0. 6.58	40	0.34.47	12	1. 2.18
30	0. 7.50	50	0.35.39	10	1. 3. 9
40	0. 8.43	7	0.36.31	20	1. 4. 0
50	0. 9.35	10	0.37.23	30	1. 4.51
2	0.10.27	20	0.38.15	40	1. 5.42
10	0.11.20	30	0.39. 7	50	1. 6.33
20	0.12.12	40	0.39.58	13	1. 7.24
30	0.13. 4	50	0.40.50	10	1. 8.15
40	0.13.56	8	0 41.42	20	1. 9. 0
50	0.14.49	10	0 42.34	30	1. 9.57
3	0.15.41	20	0.43.25	40	1.10.48
10	0.16.33	30	0 44.17	50	1.11.38
20	0.17.25	40	0 45. 9	14	1.12.29
30	0.18.18	50	0.46. 1	10	1.13.20
40	0.19.10	9	0.46 52	20	1.14.10
50	0.20. 2	10	0.47 44	30	1.15. 1
4	0.20.54	20	0.48.35	40	1.15.52
10	0.21 46	30	0.49.27	50	1.16.42
20	0.22.39	40	0.50.18	15	1.17.33
30	0.23.31	50	0.51.10	10	1.18.23
40	0.24.23	10	0.52. 1	20	1.19.14
50	0.25.15	10	0.52.53	30	1.20. 4
5	0.26. 7	20	0.53.44	40	1.20.55
10	0.26.59	30	0.54.36	50	1 21.45

Simplex motus ☉ in diebus. Simplex motus Lunæ in diebus.

	Longitudo ☉			Anomal. ☉			Longit. ☽ à ☉				Anomal. ☽				Latitudo Lunæ		
	Gr.	'	"	Gr.	'	"	sex.	°	'	"	sex.	°	'	"	sex.	°	'
1	0.	59	8	0.	59	8	0	12	11	27	0.	13	3	54	0	13	13
2	1.	58	17	1.	58	17	0	24	22	53	0	26	7	48	0	26	27
3	2.	57	25	2.	57	25	0	36	34	20	0	39	11	42	0	39	41
4	3.	56	33	3.	56	33	0	48	45	47	0	52	15	36	0	52	55
5	4.	55	42	4.	55	42	1	0	57	13	1	5	19	30	1	6	8
6	5.	54	50	5.	54	49	1	13	8	40	1	18	23	24	1	19	22
7	6.	53	58	6.	53	57	1	25	20	7	1	31	27	18	1	32	36
8	7.	53	7	7.	53	6	1	37	31	34	1	44	31	12	1	45	50
9	8	52	15	8	52	14	1	49	43	0	1	57	35	5	1	59	3
10	9.	51	23	9.	51	22	2	1	54	27	2	10	38	59	2	12	17
11	10.	50	32	10.	50	31	2	14	5	54	2	23	42	53	2	25	31
12	11	49	40	11.	49	38	2	26	17	20	2	36	46	47	2	38	45
13	12.	48	48	12.	48	46	2	38	28	47	2	49	50	41	2	51	58
14	13.	47	57	13.	47	55	2	50	40	14	3	2	54	35	3	5	12
15	14.	47	5	14.	47	3	3	2	51	40	3	15	58	29	3	18	26
16	15.	46	13	15	46	11	3	15	3	7	3	29	2	23	3	31	40
17	16.	45	21	16.	45	19	3	27	14	34	3	42	6	17	3	44	53
18	17.	44	30	17.	44	27	3	39	26	0	3	55	10	11	3	58	7
19	18.	43	38	18.	43	35	3	51	37	27	4	8	14	5	4	11	21
20	19	42	47	19.	42	44	4	3	48	54	4	21	17	59	4	24	35
21	20.	41	55	20.	41	52	4	16	0	21	4	34	21	53	4	37	48
22	21.	41	3	21.	41	0	4	28	11	47	4	47	25	47	4	51	2
23	22.	40	13	22.	40	9	4	40	23	14	5	0	29	41	5	4	16
24	23.	39	20	23.	39	16	4	52	34	41	5	13	33	35	5	17	30
25	24.	38	28	24.	38	24	5	4	46	7	5	26	37	28	5	30	44
26	25.	37	37	25.	37	33	5	16	57	34	5	39	41	22	5	43	57
27	26.	36	45	26.	36	41	5	29	9	1	5	52	45	16	5	57	11
28	27.	35	53	27.	35	49	5	41	20	27	0	5	49	10	0	10	25
29	28.	35	1	28.	34	57	5	53	31	54	0	18	53	4	0	23	39
30	29.	34	10	29.	34	6	0	5	43	21	0	31	56	58	0	36	52
31	30.	33	18	30.	33	13	0	17	54	47	0	45	0	52	0	50	6

Tabula Æquationum Nodorum Lunæ.

		0 ſexagen. 0 grad. A.		0 ſexage 30. grad A.		1 ſexagen 0 grad. A			
		3 ſexagen. 0 grad.		3 ſexagen. 30 grad.		3 ſexagen. 0 grad			
		Æquatio ☊	ſcr pro.	Æquatio ☊	ſcr. pro.	Æquatio ☊	ſc. pro.		
Gr.		° ′ ″	′ ″	° ′ ″	′ ″	° ′ ″	′ ″		
0	30	0. 0 0	0. 0	1. 33 28	15 22	1. 30 32	45.20	60	30
1	31	0. 3 50	0. 1	1. 35 12	16 18	1. 28 34	46.13	59	29
2	32	0. 7 39	0. 4	1. 36 47	17 15	1 26 30	47. 5	58	28
3	33	0. 11 27	0. 9	1. 38 12	18 13	1. 24 21	47.54	57	27
4	34	0. 15 14	0. 16	1. 39 31	19 11	1. 22 6	48.43	56	26
5	35	0 19 0	0. 26	1. 40 42	20 10	1 19 45	49.31	55	25
6	36	0. 22 46	0. 41	1. 41 45	21 9	1. 17 18	50.19	54	24
7	37	0. 26 29	0. 56	1. 42 44	22 9	1 14 46	51. 4	53	23
8	38	0 30 9	1 13	1 43 38	23 10	1 12 9	51.47	52	22
9	39	0 33 47	1. 32	1. 44 29	24 11	1 9 27	52.28	51	21
10	40	0 37 23	1. 53	1. 45 8	25 13	1 6 41	53. 8	50	20
11	41	0. 40 56	2. 16	1. 45 34	26 16	1 3 49	53.46	49	19
12	42	0 44 26	2. 41	1. 45 50	27 19	1 0 51	54.23	48	18
13	43	0. 47 52	3. 8	1. 45 56	28 22	0 57 50	54.59	47	17
14	44	0. 51 14	3. 38	1. 45 59	29 25	0 54 47	55.33	46	16
15	45	0. 54 32	4. 10	1. 46 0	30 28	0 51 42	56. 6	45	15
16	46	0. 57 47	4. 43	1. 45 53	31 30	0 48 32	56.36	44	14
17	47	1. 0 56	5. 18	1 45 36	32 33	0 45 18	57. 3	43	13
18	48	1. 4 0	5. 54	1. 45 13	33 35	0 42 0	57 28	42	12
19	49	1. 6 59	6. 32	1. 44 41	34 37	0 38 40	57.52	41	11
20	50	1. 9 53	7 12	1. 44 0	35 39	0. 35 18	58.14	40	10
21	51	1. 12 42	7. 54	1. 43 10	36 41	0. 31 53	58.35	39	9
22	52	1. 15 25	8. 38	1. 42 14	37 42	0. 28. 26	58.53	38	8
23	53	1 18 2	9. 24	1 41 10	38 43	0. 24 57	59. 9	37	7
24	54	1. 20 33	10.13	1. 39 59	39 43	0. 21 26	59.22	36	6
25	55	1. 22 58	11. 2	1. 38 42	40 41	0. 17 54	59.33	35	5
26	56	1. 25 16	11.51	1. 37 18	41 38	0. 14 21	59.43	34	4
27	57	1. 27 28	12.41	1. 35 46	42 35	0. 10 46	59.50	33	3
28	58	1 29 34	13.33	1. 34 8	43 31	0. 7 11	59.55	32	2
29	59	1. 31 34	14.27	1. 32 23	44 26	0. 3 36	59.58	31	1
30	60	1. 33 28	15.22	1. 30 32	45 20	0. 0 0	60. 0	30	0
		5 ſexagen. 30 grad. S.		5 ſexagen 0 grad. S.		4 ſexage. 30 grad. S.			
		1 ſexagen 30 grad.		2 ſexagen. 0 grad		1 ſexagen. 30 grad.			Gr.

Tabula Latitudinis Lunæ.

		0 sexag. 0 gr / 3 sexag. 0 gr.	Boreal. / Merid.	0 sex. 30. gr / 3 sex. 30 gra	Boreal. / Merid.	1 sex. 0 gr / 4 sex. 0 gr	Bore. / Merid.	
Gr.		Latitudo ° ′ ″	Excess ′ ″	Latitudo ° ′ ″	Excess ′ ″	Latitudo ° ′ ″	Excess ′ ″	
0	30	0. 0 0	0. 0	2. 29 6	9 28	4. 18 26	16,25	60
1	31	0. 5 13	0. 20	2. 33 36	9 45	4. 20 59	16 35	59
2	32	0. 10 25	0. 40	2. 38 3	10 2	4 23 28	16,45	[illegible]
3	33	0. 15 36	0. 59	2. 42 26	10 18	4. 25 53	16. 55	[illegible]
4	34	0. 20 47	1. 19	2. 46 46	10 35	4. 28 13	17. 4	56
5	35	0. 25 58	1. 39	2. 51 4	10 51	4 30 28	17.12	55
6	36	0. 31 9	1. 59	2 55 19	11 7	4. 32 38	17.20	54
7	37	0. 36 19	2. 19	2. 59 30	11 23	4 34 43	17.28	53
8	38	0. 41 29	2. 38	3. 3 38	11 39	4 36 43	17.36	52
9	39	0. 46 38	2. 57	3. 7 43	11 55	4. 38 38	17.43	51
10	40	0. 51 46	3. 17	3. 11 44	12 11	4 40 27	17.51	50
11	41	0. 56 53	3. 36	3. 15 42	12 26	4 42 11	17 58	49
12	42	1. 1 59	3. 55	3. 19 36	12 41	4 43 50	18. 5	48
13	43	1. 7 4	4. 15	3. 23 26	12 56	4. 45 23	18,12	4
14	44	1. 12 8	4. 34	3. 27 13	13 10	4. 46 52	18,18	4
15	45	1. 17 10	4. 53	3. 30 56	13 24	4. 48 18	18 23	45
16	46	1. 22 11	5. 13	3. 34 35	13 38	4. 49 35	18.[illegible]	44
17	47	1. 27 10	5. 32	3. 38 10	13 52	4. 50 49	18.31	43
18	48	1. 32 8	5. 51	3. 41 42	14 5	4. 51 58	18.34	42
19	49	1. 37 4	6. 10	3. 45 7	14 18	4. 53 0	18.38	4
20	50	1. 41 58	6. 29	3. 48 30	14 31	4. 53 57	18 42	40
21	51	1. 46 51	6. 47	3. 51 52	14 44	4. 54 49	18.45	39
22	52	1. 51 41	7. 6	3. 55 9	14 57	4. 55 36	18.48	3
23	53	1. 56 30	7. 24	3. 58 19	15 9	4. 56 17	18.51	3
24	54	2. 1 17	7 42	4. 1 23	15 21	4. 56 52	18 53	36
25	55	2. 6 1	8. 0	4. 4 24	15 32	4. 57 22	18.55	35
26	56	2. 10 43	8. 18	4. 7 21	15 43	4. 57 46	18.56	34
27	57	2. 15 23	8. 35	4. 10 15	15 54	4. 58 5	18.57	33
28	58	2. 20 0	8. 53	4. 13 5	16 5	4. 58 18	18.58	32
29	59	2. 24 34	9. 11	4. 15 47	16 15	4. 58 26	18.59	31
30	60	2. 29 6	9. 28	4. 18 26	16 25	4. 58 30	19. 0	30
		sex.30 gr. / sex.30 gr.	Merid. / Boreal	5 sex o grad. / 2 sex. o grad.	Merid. / Boreal.	4 sex,30 gr. / 1 sex. 30 gr.	Merid. / Bore.	

SECTIO TERTIA
Pædiæ Astronomicæ,
De
DIEBUS CRITICIS.

IN Historiâ Dierum Criticorum primùm tenenda est Definitio Crisis, quod sit ὀξύῤῥοπος ἐν νόσῳ μεταβολὴ πρὸς σωτηρίην ἢ ὄλεθρον, quæ colligitur ex Hipp. lib. 1. Τῶν ἐπιδημιῶν, hoc est, Crisis est subita in Morbo conversio vel ad sanitatem, vel ad mortem. Morbus verò omnis judicatur, seu Crisi fit obnoxius, in ἀκμῇ & Augmento, quod secundum Tempus morbi est terminus à quo omnis Crisis. Hinc pro varia Morborum Differentia Crises aliæ fiunt celeriores, aliæ tardiores. Quippè alii morbi sunt Acuti, alii Chronici, alii velociter suam periodum decurrunt, hi sunt longiores. Rursus Acutorum alii sunt extremè peracuti, alii peracuti, alii simpliciter acuti, alii acuti ἐξ μεταπτώσεως seu decidentia. Extremè peracuti sunt, qui intra triduum, vel ad summum quatriduum perveniunt ad suum vigorem, & vel cum salute vel morte finiunt, cujusmodi sunt Febres pestilentes, Apoplexia & Epilepsia &c.

Peracuti verò sunt, qui die 5.6.7.& 8. judicantur, & etiam sunt Febres vel Pestilentes, vel Causones, vel Synochæ, Cholera, Angina, Lethargus, Peripneumonia, & his similes.

Simpliciter autem acuti sunt, qui ab 8. per 9. 11. 14 20. & 21. ad summum extenduntur & excurrunt, ceu itidem sunt præfati Morbi & alii, ut Pleurisis, Febres continuæ, Phrenitis &c.

Morbi acuti ex decidentia, vel rectius ex mutatione vel degeneratione, (qui & Tropici dicuntur) sunt, qui modo imperfecto judicantur, & ex unâ specie in aliam abeunt, ut: Si Pleuritis vel Scabies transit in Empyema, vel Abscessum thoracis; si Febris continua in Febrim Hecticam degenerat; vel Intermittens in Continuam vel vice versa Continua in Intermittentem. Et hi intra 40 Dies judicantur.

Chronici deniq; Morbi sunt, qui post 40 diem Crisin acquirunt, longiq; evadunt, ut sunt: Febris quartana, Hydrops, Phthisis. Hæ Differentiæ Morborum & Crisium ex Hipp. Aphorismis, item de Morbis Epidem: item ex libris prognos. & Gal. in hæc loca commentariis petitæ sunt; de quibus passim.

Observandæ hic etiam sunt aliæ Crisium distinctiones, quæ apud eosdem occurrunt: Siquidem alia Crisis est perfecta, ubi nihil reliquiarum morbidarum superest, sed quæ perfectè morbum solvit, alia imperfecta, quæ non omnino tollit morbum, sed tantùm facit ut æger facilius eum ferat. Vid. Gal. cap. 2. lib. 1. de dieb. decret. & Cap. 7. lib. 3. de causis Cris. apud eundem.

Ubi etiam notandum, quod plures contingant perfectæ Crises in calidis regionibus, sicut exempla ex elegantibus Historiis, quas Hipp. in lib. Epidem recitat, id declarant. Contrà in nostræ Germaniæ Regionib. & præsertim sub nostro Polo, & in nostro solo, quod climati 8, 9, & 10. à latitudine Gra. 49. ad 54. subjacet, rarius Crises perfectæ ad salutem eveniunt.

Quemadmodum enim de Regione ad Regionem & Climate ad Clima discrimen deprehenditur, ita quoque de Aere ad Aerem à calido ad calidiorem, notabilem differentiam ubiq; invenimus. Utrobiq; autem tam in calida quam frigida regione &c. Morbi Acuti & Chronici intra præfatos dies ad Crisin mortis perveniunt, quæ hic & illic semper perfecta est.

Cæterùm Acutos Morbos definitis Temporibus, modò paribus modò imparibus Diebus judicari, nec decretoriorum Dierum eandem esse rationem, sed alios aliis velocius, alios tardius, vel salutem vel perniciem ægro afferre, diuturnâ experientiâ exploratum est. Has autem operationes à certis causis dependere nemo sanæ mentis inficias ibit: οὐδὲν γὰρ (Hipp in lib de Aere, Aquis & locis inquit) ἄνευ φύσεως γίνεται, hoc est, nihil in natura fit sine naturâ vel sine causâ naturali: Itaq; moventem & efficientem Dierum criticorum causam cum rationalibus Medicis naturam esse rectè asseveramus, quam alii calorem insitum naturalem, alii Temperiem, alii Spiritum vocant.

Ast de nomine nulli litem movebimus, modò ad hanc naturæ vim respiciatur, quæ est Morborum Medicatrix, quæ humorem morbificum coquit, noxium à bono secernit, eumq; ad excretionem præparat, & tandem excludit. Proinde natura causa efficiens proxima & particularis Dierum Crisin molientium statuitur, quam Medici maximopere attendere debent; quemadmodum enim peritus Navium gubernator & Agricola ex Aere, Ventis, nubibus, & facie Solis Lunæque imminentes tempestates, aerisq; futuram dispositionem prævident: Ita & Medicus ex naturâ dependentis ex Temperie, Morbi idæa, Magnitudine, moribus deniq;

deniq; & motibus Morbi eventum vel ad sanitatem vel mortem tendentem prospiciet.

Deinde quoq; datur causa universalis Dierum Criticorum, quæ dependet à cœlesti Astrorum influxu, & ab Hipp. in Lib. de Aere, Aquis & Locis, & Galeno in Comm. aliisq; in locis agnita est, ut taceam alios Medicos tam veteres quam recentes, Philosophos Aristotelicos & Astronomos, inter quos hîc Abenesre & Ptolomæus familiam ducunt. Nam rectè scripsit D. Augustinus Tom. 3 suorum Operum lib. 3. de Trinitate c. 4. p. 93. lit. b. quod Corpora crassiora & inferiora per subtiliora potentioraq; quodam ordine regantur. Quamvis enim Astra per se sint bonæ Creaturæ, & eorum influxus necessarius non minus quam utilis: tamen cum ad universi conservationem generationum ac corruptionum vicissitudo ἐξ ἀνάγκης requiratur, Corporibus cœlestibus non solùm generatio, sed & corruptio rerum sublunarium tribuitur, non quod per se Cœlum φθορὰν intendat, sed quia per accidens corrumpit, ut per se generet, & per Accidens destruit, ut per se conservet. Adhæc etsi motus, positus, atq; influxus cœlestes omnes simpliciter boni & regulares sunt, nec non ob variarum specierum generationem & conservationem necessarii: tamen non omnes æq; omnibus salutares, hominumq; valetudini commodas esse nostræ Medicinæ dictator in præfato Libro suffragante, experientiâ loculentâ rerum magistra testatur, quod scilicet diversi Siderum aspectus variarum alterationum effectrices, & dispari bonitate præditi sint. Insuper supernos influxus per se & in suâ naturâ non maleficos, non contagiosos, non pestilentes esse: Attamen ἐνεργητικῶς Morbos & pestilentem constitutionem producere posse à multis retrò seculis observatum est. Hinc non tantùm caloris, frigoris, imbrium & siccitatis vices cum reliquis aeris tempestatibus: verùm etiam ipsa Sanitas & Morbus, Morsq; naturalis à cœlestium Corporum viribus suo modo dependent, quod & Aristoteles I. Meteo. comprobavit, inquiens: Mundus qui terram ambit cum supernis conversionibus sic comparatus est, ut omnis ejus virtus inde gubernetur. Et clarius sub finem lib 3. de gen. animal. idem inculcat, quando vim illam animalem ac spirabilem quæ per omnem naturam diffusa est, è Cœlis suam ducere originem, scribit. Quocirca, quemadmodum Astrorum motus & vires jam per longas observationes innotuerunt, unde ab Astrologis futuræ aeris mutationes & tempestates sæpè prænuntiantur, nec non temperamentorum constitutiones ex nota hominum Genesi determinantur; Ita etiam non dubitamus,

bitamus, dies decretorios, eorumq; Tempus ab influxu Corporum Cœlestium prædici posse. Etiamsi enim hæc Tempora non ita præcise ac definitè cognoscantur, ut perfectius dignosci nequeant, sufficit tamen hæc cognitio, tam ad futura præsagienda, quam ad ea quæ facta sunt cognoscenda & conservanda, quæ rarò fallit. Concludimus igitur universalem Dierum Criticorum causam esse, Astrorum influxus, qui bonam Crisin per se, malam verò per Accidens inferunt.

Jam si Philiatri de Crisi & eventu Morborum rectè volunt judicare, necesse est, ut quibusdam Astrologicis adminiculis sint instructi, nimirum sciant construere Genesin decumbentis ex natalitio ejus tempore, ut inde loca aneretica & infecta elicere queant. Deinde ad tempus primi Decubitus notent aspectus & configurationes Planetarum cum Luna. Luna enim superiorum vires excipiens, res potissimùm inferiores movet, eò quod Terræ proxima sit & cursus celeritate vires suas citius nobis communicet. Quod si ☽ in principio Morbi acuti nullum cum Planetis Aspectum inierit, considera, an alia quædam adsit Planetarum constellatio, quæ Morbum movere possit: Nam quando ☽ ad malos alicujus Planetæ Radios, præsertim si sit maleficus, perveniat, videbis tunc eum miras Tragœdias excitare & Mortem sæpè denotare. Si verò ☽ in principio ægritudinis cum aliquo benefico Planeta, exempli gratia vel cum ♃ vel cum ♀ cojerit, tunc ☽ ad □ aut oppositum harum erraticarum Radium perveniens, non adeò malas in Morbo mutationes producere valebit, cum à beneficorum Radiis foveatur.

Contrà constans est Astrologorum sententia ab Experientiâ stabilita, quod si ☽ incunte Morbo cum malefico Planeta congressa fuerit, aut in ejus Tetragono vel opposito extiterit, maximæ in Morbo alterationes sint expectandæ, tunc scilicet quando ☽ ad hostiles alios aspectus pervenit. Exempli gratia, si ☽ in primâ ægritudinis accessione juncta fuerit ♂ti, eaq; postmodum ♂tis quadratos, vel oppositos Radios attigerit, eventum Morbi perniciosum imò exitiosum fore arguet, nisi beneficorum radii hanc ♂tis malitiam validè represserint: Morbi enim acuti tam diu suam Crisin differre solent, donec ☽ suo motu ad Quadratum aut oppositum radium, cui ante juncta erat, aut idem omninò punctum similis aspectus attigerit. Sed ut hoc plenius cognoscamus, ad paucu-las speciales Historias & Exempla Dierum Decretoriorum nos convertemus, & Philiatrum quasi manu per eas ducemus, ut varietatem utriusque causæ Dies Criticos molientis inde prospicere & colligere possit.

Obje-

Objectiones verò, quæ contra hanc universalem caussam à plerisq; Medicis adduci solent sub finem harum Historiarum diluemus, earumq; Elenchos ostendemus. Eo autem ordine nobis progrediendum est, quem Definitio Crisis suggessit, ita quidem, ut primùm Historias Crisium salutarium, quæ nempe in salutem & pristinam valetudinem evaserunt: deinde verò pernitiosarum & mortiferarum Crisium Exempla attexamus & cum qualibet Historia speciem Morbi, ejus caussam & signa singularium Crisium conjungemus, ne de illis peculiaria Capita constituere opus habeamus.

HISTORIA I.

De
Quadam Reverenda Persona Febri synocha correpta, quæ die 7 largo Hæmorrhoidum fluxu soluta est.

Reverendus quidam Ecclesiastes Stetinensis Anno Christi 1627. die 5. Martii, Feria 2. Febre putrida continuâ inopinatâ corripiebatur, quæ sese primùm cum Horripilatione, angustiis Cordis & Cardialgiá, postmodum intenso æstu, siti & dolore Hypochondriorum exerebat, Urina valdè erat rubicunda & tincta, Temperamentum melancholicum, ipsaq; Febris non nisi ab infarctu Lienis & Venarum Mesaraicarum nec non vitiosis, pituitosis ac Melancholicis Humoribus proficiscebatur.

Die II. Cardialgia recurrebat, ægrè respirabat æger, ob vasa sanguine flatuoso repleta, conquerebatur insuper de gravante dolore circa spinã Dorsi & Lumbos quibus ægrè incumbebat. Multa enim Sangvinis portio deorsum tendens, lumborum dolorem inferebat. Præterea, dolor oris Ventriculi atq; æstus & sitis eum infestabant propter serum sanguinis in Ventrem confluens. Suspicabar aliquam instare Crisin, quam ante nominata Accidentia indicabant, quæ & subsecuta est; nam sub noctem Hæmorrhoidum fluxus, satis largus supervenit, quo Lien & Mesenterium à suo infarctu liberabantur, nec dubium est, quin per internas Hæmorrhoidum Venas à Ramo Venæ portæ Splenetico oriundas, quæ in prædicto viscere dissem inantur, evacuatio facta sit: Siquidem & Sanguis non adeò fuit crassus, quemadmodum is solet esse, qui per externas Hæmorrhoidum Venas sese exonerare solet.

Cùm eum manè die 12 inviserem, hanc Crisin mihi lætus retulit, jussit etiam mihi ostendi suam Urinam, in qua solita antè rubedo planè desierat, & sani hominis color citrinus cum aliquo sedimento conspiciebatur. Insuper etiam illa molesta accidentia, videlicet dolorem Spinæ dorsi atq; Lumborum, caloremq; Hypochondriorum evanuisse affirmabat.

Cœlestis hujus Crisis caussa etiam ab Astris significata fuit. Nam sub Tempus primi decubitus erat □ ♃ ☽, quem sequente Die Oppositio ☉ ♄ sequebatur, ubi Morbus ingravescebat. Quando verò ☽ die 7 Morbi currente ♃ ad ☍ ☽ veniebat, & laudabilis & benignus ♃ ac ☉ △ subsequebatur, non nisi bonam Morbi Crisin & eventum significare poterant. Eodem modo observavi etiam Mulierculas quasdam acutâ Febre vexatas per Menstruum Uteri fluxum ita judicatas fuisse, ubi eadem Signa, utpote, Gravitas Lumborum, Dolor oris Ventriculi & Cardialgia præcesserunt, quemadmodũ Hipp. in Coacis prænotio. & in Prorheticis Exempla hujusmodi Crisium recenset: Ut & Galenus in Comm. super hæc loca, & lib 3. de Crisibus, quorum lectio hisce adjungi potest. Deprehendi tamen plerumq; eas Crises valdè esse imperfectas, & proinde parum juvare, nisi & alvus unâ saburram vitiosorum humorum exoneret. Hæmorrhoidum autem fluxui magis est fidendum, nam illa Crisis est magis fida & insuper à multis aliis liberat Morbis, sicut videre est apud Hipp. lib. 6. de morb. popul. part. 3. & 6. Aphor. Sect. II.

HISTORIA II.

De

Crisi per Hæmorrhagiam seu profluvium sangvinis è Naribus in Viro juvene die itidem 7. factâ.

CIrca Hyemem Anni 1621. Febres putridæ & Synochæ Stargardiæ Pomeranorũ grassari cœperunt, tam apud Juvenes quam Seniores: hac Synocho etiam Vir Juvenis quasi 30 Annorum, nomine, JOHANNES BRÜSSINGER, Civis & Mercator Stargardiensis die 17. Decemb. ejusdem Anni sub conjunctionem ♃ & ☽ correptus est, siquidem primùm eum horror invasit, deinde continuus calor præter naturalis, quem vehemens Capitis dolor excepit.

Speraverat autem hanc Cephalalgiam cum calore remissuram, unde pr-

de primis Diebus, nihil opis Medicæ desiderabat: & cum non cessaret ille dolor, ex Consilio sui Affinis & Pharmacopolæ ibidem Dn: Joviniani Cæsaris, Oxyrrhodinum ex Nucleis Persicorum cum Aq. Rosar. & Acet. destil. paratum admisit, quo tamen applicato dolor Capitis sedari noluit. Quocirca & ego die 23. Decemb. per præfatum Pharmacopæum ad eum circa meridiem sum vocatus, ubi mihi Urina ejus valdè perturbata, qualis Jumentorum esse solet, est ostensa. Memor igitur 4. Aphorismi 70. Hipp. ex ejus inspectione pronuntiavi, Cephalalgiam haud dubiè hic adesse: Nam quando multitudo crudæ & crassæ materiæ vel seri in Venis à calore febrili agitatur, in flatus aliquâ ex parte convertitur qui eam perturbationem in sero Urinæ efficiunt. Flatulenti enim Spiritus unâ cum Urinâ effluunt, sicut ex allegato Aphorismo Hipp. apparet. Ille omninò se vehementi dolore Capitis laborare asseveravit, qui si removeri posset, reliqua Symptomata facilius toleraturum addidit.

Voluerunt astantes, velut & Æger ipse, ut Phlebotomiam administrari curarem: Ego cum viderem faciem Febricitantis rubore suffusam per excursum Sangvinis mitiore bile perfusi, & prægrandem Cephalalgiam adesse, Pulsum quoq; in Temporibus ægri ingentem & ægro ipsi perceptibilem atq; molestum; ex dilatatione nimirum Venarũ extraordinaria, undè & existit repletio particularis Arteriarum, vel etiã partium in quibus illæ emicant, suspicabar in procinctu esse Hæmorrhagiam. Nam hæc Signa imminentis Hæmorrhagiæ dictator priscæ Medicinæ in Coacis prænotionibus textu 147. nobis reliquit. Unde dixi hoc præsidium in crastinum diem esse differendum: Nam ipsam Naturam aliquid in Sangvinis excretione molituram. Quod & circa vesperam ejus Diei factum, ultra Libram Sangvinis per Nares profudit, imò tantum, quantum nec larga Phlebotomia detractum fuisset. Hac Crisi factâ, statim molesta illa Symptomata remiserunt, unde ego ad præsidium Venæ sectionis accedere nolui, memor lib. 1. Aphor. Aph. 20. quæ judicantur & judicata sunt integrè, nec movere, neq; aliud quicquã innovare vel Medicamentis vel aliis irritamentis, sed sinere oportet. Quia tamen sequentibus diebus dolor Capitis & æstus recurrebant, imperfectam illam Crisin fuisse colligebam. Proinde Clysmate & blando Purgante Medicamento Bilem sangvini permixtam, & ejus fervorem intendentem detrahere studui. Hinc natura ipsa circa 30. iterum aliquam Hæmorrhagiam moliebatur, à quâ Æger melius habere, & omnia in melius vergere ceperunt.

Philia-

Philiatri duo hic observent 1. Magnam esse expectationem Hæmorrhagiæ Criticæ in Morbis acutis apud Iuvenes, quam si neq; Medicus prævidere, neq; prævisam cum in propinquo est, velut digito judicare novit, vix videtur summam vituperationem posse evitari, ut rectè Ludov. Duretus in Comment. super Coacas prænotiones Hipp. p. 77. scripsit. Deinde eventum hujus morbi ferè laudabilem ex Astrologicis causis colligere licebat, ingruebat enim morbus die 17 Decemb. sub benevolam conjunctionem ♃ & ☽ ante meridiem cum Luna die 7. Morbi ad □ ♃ perveniret, Hæmorrhagia Narium superveniebat. Planè autem solvebatur Morbus circa ☍ ♃ & ☽ nimirum 14 morbi.

Historia III.

De

Quodam Febre petechiali laborante, qui Diarrhoea die 17. Morbi judicatus est.

Pictor quidam Vicinus meus Stargardiæ Anno 1623 Die 12 Februarii sub conjunctionem ♂ ☽ Febre putridâ & acutâ correptus est, quæ validum ac vehementem sitim secum traxit, undè multum bibere coactus est, doloresq; in Scapulis exquisitos percepit, insuper vigiles noctes egit, nihilq; comedere potuit.

Die 9. Morbi Maculæ subvirides in pectore & Manibus nec non toto dorso erumpebant, quæ Lenticulis aut Pulicum puncturis similes erant, undè hæc Febris Petechialis dicitur, quæ ad 11. diem perseverabat. Die 12. iterum evanescebant, & licet cordialia Medicamenta usurparet, tamen denuò ad ambitum Corporis expelli nequiverunt, unde omnia quotidiè in peius ruebant. Nam Facies tota evadebat Hippocratica, lividentes rigebant buccæ & Ungves, summa aderat virium dejectio, & Pulsuum langvor. Nasus acutus, tempora collapsa, & præterea surdaster evadebat, quæ Symptomata in manifestum Mortis discrimen hunc ægrum vocabant; manus & pedes à nimiâ Nervorum siccitate tremebant, jacebat oculis semiapertis, quæ lethalia Signa ad diem 17. perseverabant.

Cùm autem Morbis naturæ mediantur; ut rectè Hippoc. 6. Epid. Sect. 5. pag. 273. nos docuit, ecce ructus ac flatus silentes, crepitusq; Ventris atq; inflatio hunc Ægrum invadebant, qualia Signa Hippoc. in Coacis prænotionibus Tex. 148. Diarrhoeæ prænuncia recenset. Et Alvus fastidiota

ſtidioſa atq; acerrimi ſenſus, hunc ægrum magis anxium virium exolutarum & omnis loci impatientem reddidit, ob ſtomachum pravorum humorum morſibus valdè afflictum. Quid fit? Alvus repentè fluere cœpit, & in ſumma virium proſtratione cruda, billioſa, fervida, porracea, graveolentiaq; per triduum dejecit, quotidiè octies & decies, plus minus. Sic iſte æger, qui moribundus jacebat, hac eximiâ ſuperveniente Criſi, etiam ab aſtris ſignificata [die enim 28 Februarii, qui erat ſeptimus ac decimus ab initio morbi, △☉♃, amica conſtellatio & hujus laudabilis criſis index accidunt] revixit.

Sic & meus Dn. Compater C. K. Anno 1623. die 18 Auguſti ſub □♂ febre putridâ, eaq; gravi corripiebatur, quâ per aliquot ſeptimanas ægrè decumbebat, die 25 Auguſti erat ☌♂☽, quâ Criſis quidem, licet valde imperfecta, accidebat: ſponte enim ſolvebatur alvus, & vitellinam acremq; bilis podicem ſuâ acrimoniâ infeſtantem dejiciebat. Imperfecta autam, ſicut dixi, hæc criſis fuit; quippe recidiva & alia quædam ſymptomata poſtmodum ſuperveniebant.

HISTORIA IV.

De

Juvene quodam 25. Annorum Febri acuta laborante, qui die quinta decretoria per ſudorem judicatus eſt.

JUvenis quidam Vir robuſtus 25 annorum, agriculturæ deditus & antea per ſuæ vitæ decurſum nullo morbo tentatus febre ſynocho Stargardiæ Pomeranorum die 1 Novembris Anno 1621 poſt meridiem ſub □♂☽ laborare cœpit, cum qua & capitis dolor, ſitis, omnium membrorum laſſitudo, ſolita ſcilicet accidentia, complicata fuerunt. Ad hunc die 2 Novembri ſum vocatus, eiq; nonnulla medicamenta, quę hîc recenſere ſupervacaneũ eſt, præſcripſi, unde & de die in diem meliuſculè habere cæpit. Die 5. morbi deprehendebam pulſum arteriarum undoſum & ad tactum corporis roridam quandam humiditatem cutisque mollitiem percipiebam, & quia dies quinta, quæ plerumque ſolet eſſe per ſudorem critica, teſte *Hippocrate 4. Aphoriſm. 36.* naturam ad ſudorem eſſe proclivẽ prædixi. Nec fefellit hoc prognoſticon: quippe pomeridiano tempore æger rigore quodam obruebatur, qui proficiſcebatur â motu naturæ, quæ è venis tenues acutosq; humores detrudebat in ambitum

corporis: iis enim per sensiles carneas partes discurrentibus, ipsasq; vellicantibus rigor excitatur, quam rationem etiam Galenus reddit *in lib de rigore &c.* Quocirca ubi ☽ ad oppositionem ♃ & conjunctionem ♀ sub incipientem diem 6 Novembris perveniebat, copiosi atq; calidi ex toto corpore eruperunt sudores, per quos peccantes ac superflui humores excernebantur, ita ut sudor instar guttaram pluviæ decidentium ex universo corpore extillaret & biduò persisteret. Fuit perfecta hæc Crisis, qualem eam Hippocrates *4. Aphorism 36. lib. 1. Epidemior. & in Coacis prænotionibus*, ut & *Galenus in arte medicina c. 19.* describunt. Talem Crisin raro apud nostrates homines, ob caussam in priore historia tactam, mihi observare contigit, & ubi accidit, singulare robur naturæ denotat.

HISTORIA V.

De

Quodam Febricitante, qui die 14 multâ crassâ exinanitâ urinâ judicatus & pedetentim à morbo liberatus est.

NOtarius quidam Publicus apud nos Anno 1617. die 19 Septemb. fer. 4. ante meridiem febriculâ correptus est cum molestis sub sinistro hypochondrio doloribus: distenta enim erant flatibus hypochondria, & hinc abdomen ipsi inflabatur & peccans materia βορβορέτμους murmuraq; excitabat, adeò ut præ illis vix jacere & de nocte dormire posset. Præscripsi aliquod Decoctum aperiens, flatus discutiens & materiam in viscerum viis latitanten per alvum leniter subducens, ex cujus usu meliusculè videbatur habere. Nihilominus tamen per vices flatus recurrebant, & hypochondria quasi suspensa erant. Hic autē Æger toto morbi decursu crassas mejebat urinas. Die 28 Septembris cum in Decocto aperiente pergeret, alvum, quæ antea copiosè excrementa dejiciebat, sicciorem evasisse, nec more solito suum velle facere officium animadvertebat. Urinæ turbidæ & spissæ manebant: prætereà de quodam ardore urinæ nec nō gravitate sub hypochondriis, neq; ulla indicia vel hæmorrhagiæ vel hæmorrhoidum, sudoris vel Vomiatus aderant, unde suspicabar, naturam ad excretionem urinæ criticam esse proclivem, & ad περίρροιαν promovendum fortiora diuretica adhibui, eaq; cum

spiritu

ſpiritu ſalis miſcui. Proinde ſub diem 2 Octobris æger urinam nigram, craſſam & copioſam aliquoties ex veſica exoneravit cum multo ſedimento conjunctam. Erat autem nigra Urina non per ſe, ſed à permixtione humoris atri, quem lien expurgabat & in renes deponebat, quale exemplum & Hippoc. *lib.* 3. *Epidem. ſect* 3. *hiſt.* 6. narrat. A multitudine hujus craſſæ & limoſæ urinæ æger pedententim meliùs habuit. Signa hujusmodi criſis etiam agnoſcunt *Galenus lib.* 3. *de criſibus cap. ultimo. Hippocrat. anté nominato loco & in Coacis Prænotion. ſect. de Urinis, textu* 26. Nota hîc cauſam Criſis auſtralem ac univerſalem. Ægrotus incepit ægrotare ſub oppoſitionem ♃ ac ☽ & Criſis ſubſecuta eſt die 14 ab initio morbi, cum ☽ ad conjunctionem ♃ properaret & ſextilis ♃ ♀ benigna præcederet, quæ haut dubiè hanc laudabilem excretionem provexit.

HISTORIA VI.

De
Quodam nobili Juvene febri Continuâ laborante & per Criſin copioſi vomitus liberato.

ANno 1627 die 5 Julii ad Nobilem quendam Juvenem 20. circiter annorum hoſpitantem penes Advocatum Fiſci Illuſtriſſ. noſtri Principis vocatus ſum. Is æger febre acutâ cum cardialgia conjuncta detinebatur. Et licetis ab uſu Julepii cordialis refrigerantis per biduum aliquod alleviamentum ſentiret, ſequentibus tamen diebus cardialgia illa cum magna moleſtia recurrit, ita ut die XI Julii de magno ſtomachi faſtidio & de morſu oris ventriculi graviore conquereretur. Cumq; humor bilioſus partes ſuperiores peteret, hypochondria tactu frigida evadebant: nam & calor nativus ad interiora recurrebat. Aderat etiam vehemens capitis dolor, vertigo tenebricoſa, oris amaritudo & oris ſtomachi dolor: quippe acres humores illud vellicabant & mordebant; hinc cardiogmus, ſtomachi faſtidium & alia ſymptomata. Quid fit? Ipſa natura per ſuperiora multum bilis acerrimæ aliquoties rejecit: Expultrix enim in hoc viro juvene valida & conſpicua erat. A copia bilis depoſita decumbens ſtatim meliùs ſeſe habere & à morbo recolligere cœpit. Initium morbi cecidit ſub tempus □ ♃ ☽ & △ ☉ ♃: Die 7. autem morbi ſub ☌ ♃ ☽ hæc criſis accidit.

HISTORIA VII.
De
Crisi per abscessum in poplite dextri pedis terminante.

VIdua quædam affinitate mihi conjuncta die 2 Junii Anno 1628. sub □ ♂ ☽ febre gravi cum cholera complicata ex improviso obruta, Quamvis autem à me tam contra febrem, quàm vomitus variis medicamentis certatũ fuerit, tamen hunc compositum affectum planè edomare non potui, donec natura in dextro poplite, in quo venæ sectio antea administrata erat, abscessum κατ' ἴξιν moliretur, per quem multa purulenta materia conpluribus diebus evacuata fuit. Incepit autem fluere abscessus, cum ☽ ab ☍ ♂ ad ☍ ♀ deflueret, circa 10 Julii, quadraginta propemodum ab initio morbi diebus, & per aliquot septimanas continuavit, ita ut lentè febris cum aliis accidentibus cessàverit. Observa hìc, quod si Mastiales constellationes cum Saturninis sub primordia morbi sint conjunctæ, plerumq́; diuturnitatem morbi & abscessum fore portendant. Hic enim ineunte morbo □ ♂ ☽, △ ♄ ☿ item ✶ ♄ ♀ concurrebant.

Et sic in septem historiis medicis particularem Crisium laudabilium rationem per hæmorrhoidum fluxum, per hæmorrhagiam & menstrua, per diarrhoeam, sudorem, Urinam, vomitum & deniq; abscessum unà cum horum causis ac signis universalibus succinctè proposui: jam etiam nonnullas crisium historias, quæ in mortem terminârunt, eadem methodo, sed breviter, attexam.

HISTORIA VIII.
De
Adolescente morbo extremè peracuto, nempe febre pestilente laborante, & die tertio morbi extincto.

NOtetur primùm, quod si febres pestilentes sub ☌ ♂ ☽ ingruant, sæpè Crises suas non differant, donec ☽ ad □ vel Oppositum ♂ radium perveniat, sed si vel ♀ in transitu locum ♂ radiis tangat, & sit in malo aspectu ♄ vel ♂, aut etiam Novilunium accesserit, sæpè agon mortis circa id tempus ingruere soleat, cujus rei hanc cape historiam.

Cum pestis apud nos Anno 1624. sub adultum autumnum inciperet grassari, præcipuorum Virorum filii hoc contagio etiam infecti fuerunt, inter quos quoq; fuit optimæ spei & indolis Adolescens 15 fermè annorum, qui die 29. Octobr. fer 6. capitis dolorem, & anxietates cum impetu accedentes persensit, ita ut post meridiem, quando ☌ ♂ ☽ contigit, se cubitum conferre coactus fuerit. Et licet à me Clysmata, Alexi pharmaca & alia utilia præsidia vehementiæ morbi opposita fuerint, tamen nihil profecerunt: Viribus enim prostratis delirium, syncope & magna inquietudo supervenerunt, adeo ut die 31. Octobris post meridiem morbus morte finitus sit, & bonus ille Adolescens cum magno cordolio suorum ac omnium bonorum luctu extremum clauserit diē. Mortis tempore ♀ primum gradum ♐ attigerat, quem ♂ in loco geniture obtinebat. In directionibus quoq; Horoscopus ad corpus ♂ pervenerat: natus enim erat Anno 1609. die 24. Decembris pridie Theophaniæ, fer. 1. ante meridiem.

HISTORIA IX.

De
Obitu Soceri mei, qui itidem febri pestilente die tertio extinctus est.

FEbres Pestilentes aspectus ☉ ac ☽ sequi non tantùm ex priore exemplo, sed & ex hoc præsente Dn. Soceri mei, Consulis olim Stetinensis, patet. Is enim, grassante apud nos Peste Anno 1630 die 30 Sept. post 2. pomeridianam, ubi Sol ad Sextilem Lunæ radium pervenerat, tanto horrore est correptus, ut per aliquot continuas horas eo concussus & in lecto jactatus sit, ex cujus diuturniore mora malignitatem hujus Febris extremè peracutæ conjicere licebat, præsertim cum eum perpetuus affligeret æstus. Hoc igitur in vitæ periculo constitutus meus socer mortem imminentem præsensit, suis valedixit & ex hac vita emigravit paulò antequam ☉ ad primam quadram Lunæ, quæ fiebat die 2 Octobr. revertebatur, nondum completo 57 ætatis suæ anno. Notet etiam hic Astrophilus, quod in Genesi Dn. Soceri mei secundum directionem Zodiacalem in annum labentem 57. ætatis Corpus ♂ ad Saturnum, qui tempore genituræ in ♒ hæsit, devolveretur, quæ conjunctio ♄ & ♂ in eodem signo, nempe quinto gradu ♒ triduum saltem ipsius decubitum præcedebat.

Historia X.

Trium Epilepticorum, qui intra unum diem hoc morbo occubuerunt.

Epilepsia in quibusdam longum est malum, in quibusdam verò morbus periculosissimus & extremè peracutus, qui sæpe intra diem imo nonnunquam citius jugulat; infantes inprimis & prægnantes: quando nimirum crebris accessionibus recurrit & symptomatum vehementiâ instat: Cerebrum enim primariò affectum ob suam præstantiam ac dignitatem gravissimos insultus diu nescit sustinere. Huic accedit symptomatum magnitudo, quando Epilepsia minima accessionum intervalla habet, imbecillesq; naturas, quales sunt infantum & gravidarum, invadit. Insuper causæ atrocitas eundem augit morbum, sive ea sit proxima sive remota: quò & pertinent malignæ constellationes, cum scilicet in genitura juxta Canones Astrologorum ☿ vel ☽ infausto Saturni aut Martis radio applicatur: Unde repente Comitiali morbo isti homines obruuntur, quando planetæ jam dicti horoscopum genituræ transeunt, & quando luminaria mundi vel ad nova signa vel aspectus radiosq; Planetarum tetragonos vel Oppositos perveniunt, etiamsi beneficorum radii sint admisti, id quod tribus exemplis duarum gravidarum & unius infantis breviter ostendam.

Juvenis quædam mulier gravida & vicina partui Anno 1624. die 21 Julii, horâ primâ matutinâ, cum ☽ ad Oppositionem ♄ tenderet, cœpit epilepticis convulsionibus corripi. Et licet undiq; variis hinc inde conquisitis medicamentis contra hunc gravissimum morbum pugnatum sit, nihilominus tamen morbus prævaluit, & paroxysmi tanta incrementa sumserunt, ut sub vesperam, cum ☽ ad ☍ ♃ deflueret, extincta sit. Idem etiam accidit in alia muliercula quæ instante partu die 10 Junii Anno 1628, cum ♂ & ♀ in XI. gradu ♌ Horoscopum genituræ transirent, & in ☍ ☽ constituerentur, Epilepsiâ infestata est, cumq; nihil conferre vellet, die XI ante meridiem ea succubuit. Sol tunc cardinale ♋ signum ingressus erat.

Hisce domesticum meum exemplum in filiolo meo quadrimestri primogenito addam. Nam & ille die 28 Novembr. fer. 7. Anno 1628 manè post septimam & usum balnei statim caduco morbo correptus est, &

eſt, & magnitudo atrocitasq; morbi omnem medicamentorum efficaciam eluſit, ita ut uno eodemq; die horâ .o. pomeridianâ obierit. In genitura mei filioli Luna affligebatur conjunctione ♄ & ☿ necnon □ ♂. Quando ☉ cum ☿ Horoſcopum ejus in 16. gradu ♐ percurrebat, inſultum comitialem primùm ſenſit, cumq; ☽ ad △ ♃ pergeret, ille hoc morbo vitam finiit.

HISTORIA XI.

De *Quodam Nobili juvene repentè Empyemate ſuffocato.*

INter morbos extremè peracutos referuntur etiam Catarrhi ſuffocativi, dyſpnœa & Empyema: ſiquidem & cum hiſce morbis ita comparatum eſt, ut ſæpe celeriter hominem è medio tollant, cujus rei hanc percipe hiſtoriam.

Nobilis juvenis Dn. Chriſtophorus Egenolphus Crato Ulmenſis Anno 1620. Wittebergæ literis operam navans, empyemate ſeu ſuppuratione laborabat, quæ nihil aliud eſt, quàm affectus in numero toto genere præter naturam, ex collectione purulentę cujusdam materię in media thoracis ac pulmonum regione nata, quæ violentam expuitionem, reſpirandi difficultatem & febriculam ſecum trahit. Hic juvenis per unam atq; alteram ſeptimanā ſcabie, deinde etiam tumore pedū, laborabat; quæ accidentia corporis, cum adhuc ambulare poſſet, nō magnopere curavit, licet indeſinente tuſſiendi cupiditate tentaretur & graveolentem fœtidumq; ex ore mitteret halitum, quæ ſigna ſolent eſſe hujus morbi diagnoſtica, ſicut ea noſter dictator Hippoc. *lib. 2. prognoſt.* commemorat. Quid fit? die 15 Novemb. Anno 1620 fer. 4. purulenta illa materia in cavitate thoracis contenta moliebatur excluſionem: Etenim vomicâ rupta tota thoracis capacitas pure lento; tenace, glutinoſo erat repleta, à qua jam jam æger ſuffocari videbatur. Quamvis etiam exquiſitis medicamentis æger refectus fuerit, nihilominus tamen ſub lucta naturæ & morbi tandem hic ingenuus juvenis ſuccubuit & die 16 Novembr. circa horam tertiam matutinam hac exſcreandi difficultate ſatis ſuperq; fatigatus & erectus ſedens inter vivos eſſe deſiit. Hoc empyema citra ullum dubium ſuam originem ex exſudatione humorum vitioſorum in

cavita-

cavitatem thoracis traxit, quæ colluvies ibidem collecta tandem in pus versa est. Pus exitum quærens præ nimia crassitie sua infarctu respirationis organa subduxit, unde hic juvenis nobilis tandem fuit suffocatus: graveolentia etiam oris ex nulla alia causa quam ex hac puris generatione proficiscebatur. In genesi hujus juvenis, quæ incidit in Annum 1600, diem 22 Januarii, manifestum vitæ periculum astra ostendunt: Conjunctio enim ♂ & ♃ in igneo signo leonis & ♂ supra benevolos elevatus præcalidam Epatis constitutionem denotavit, unde serosa humorum colluvies in pectore collecta & in id exudans empyema, in ambitu corporis autem scabiem, tumorem pedum & pustulas attulit. ♀ in initio ♑, domus ♄ & ⚹ eius aspectu reddit graveolentes. Abscissor autem vitæ hîc est ♄, eò quod cuspidem vitæ obsideat, qui ad quadratum radium, Domini octavæ, accedens vitam abbreviavit, præsertim cum cætera consentiant: Incidit enim in labentem annum ætatis hujus Nati 21. gemina directio, videlicet ♂ ex Medio coeli ad sextilem ♄, qui in signis longarum ascensionum pro quadrato habetur, & Saturni ad □ ☿: Saturnus autem autor est scabiei, hydropis, Catarrhorum ad pulmones atque pectus decumbentium. Denatus est, cum ☽ ad locum ♀ radicis capricornum perveniret, & Mars Veneri occurreret, quæ causa cœlestis hîc notanda.

HISTORIÆ ULTIMÆ.

De

Obitu cujusdam Lethargicæ Virginis & puellæ peracutâ febre laborantis, quartâ die extinctarum.

AD extremè peracutos morbos illi quoq; referuntur, qui quarto die jugulant, cujusmodi sunt Lethargus & febres quædam extremè malignæ, quemadmodum præsens historia duarum fœmellarum nos edocebit. Soror Dn. Johannis Holtzwerthers/ Pharmacopœi olim Stetinensis, Virgo 20 quasi annorum, die 11 Novembris fer. 3 Anno 1628, sub horam tertiam pomeridianam tam profundo sopore fuit obruta, ut ex eo humi jacens vix excitari & in lectum deportari potuerit. Hoc tempore ☽ à ⚹ ☉ ad ☌ ♄ defluxerat. Quamquam autem hîc varia medicamenta adhibita sint, ad revellendum humorem à cerebro, tamen omnia de die in diem in peius ruerunt, donec die 16. Novembris

vembri mane circiter tertiam, cum iterum ☽ à ☌ ☉ ad ✱ ♄ properaret perpetuo ſopore correpta expiraverit. Atque ita cauſa cœleſtis à radiis ♄ ac ☉ dependit: Nam initio morbi ☽ à ✱ ☉ ad ☌ ♄; ſub finem verò morbi à ☌ ☉ ad ✱ ♄ defluxit.

Deinde puella quædam unius anni conſanguinitate mihi propinquam die 9 Julii Anno 1632. fer. 2. peracuta febre laborare cœpit, quam exceperunt anxietates cordis inquietudines & vigiliæ perpetuæ, tuſſis, vomitus, oſcitationes & rigores. Initium huius morbi cecidit in □ ♄ ☽, quem ſeq. die ✱ ☉ ♂ ſecutus eſt. Hîc nihil quoq: medicamenta profecerunt, ſed nata die 12. Julij hora 5. pomeridiana, currente die quarto morbi, extincta eſt, quo tempore ☌ ♂ ☽ præceſſerat, & ☉ eo ipſo articulo in primum punctum ♌ ingreſſus fuerat. Ex quo & ſimilibus exemplis videre eſt, ingreſſum quoque ☉ in nova ſigna ad qualitatem criſis determinandam multùm valere.

Concluſio hiſtoriæ dierum Criticorum.

Quanquam plura exempla & regulas prioribus ſuperaddere poſſem: tamen cùm hæc Pædiæ pars jam ſatis excreverit, atque operæ typographicæ ob inſtantes nundinas ad finem properent; ideo alia quæ ad materiam hanc ſupplendam reſtare videntur, in peculiarem tractatum reſervabo, modò adhuc nonnulla de aſtrorum influxu in genere ſubjunxero. Nemini enim mirum videri debet, quod cauſſam dierum criticorum univerſalem ſoli ☽æ defluxui ad quadrata vel oppoſita loca aſtringere nequiverim: ſiquidem & antiqui Medici, ſi vires motuſq; Planetarum ſatis cognitos perſpectoſq; habuiſſent, in eo non acquieviſſent. Ideoq́ue ex conſtellationibus planetarum cum ☽a certiora præſagia de morborum eventibus & criſibus, quàm à mero ☽æ motu deſumi, certum eſt, etiamſi nondum omnia adeo præciſè definitè cognoſcantur, ſic ut perfectiùs nullo modo cognoſci queant. Eam ob cauſſam & Philiatri debent eſſe Aſtrophili, eoſq; has cauſſas cœleſtes non negligere decet, ex quibus præſagia morborum formare, & dies criticos prævidere poſſunt. Neq; etiam vanis objectionibus deterreri debent, quaſi aſtra nihil in hæc

inferiora contra naturam agere poſſint, cùm ſint corpora naturalia: ſiquidem unum idemq́ue corpus, exempli gratia, elementa, aſtra, animalia, medicamenta, alimenta, & ſimilia, prout propriè & ſecundum naturam conſiderantur, ſunt corpora naturalia; prout v. morbos inferunt, & qualitates hominum naturales ſanitatemq́ue mutant, hoc reſpectu cauſſarum morbiferarum habent. Neque etiam eos movere debet, quod multi ex 1. *Phyſic.* Ariſtotelis argumententur: actiones particulares non determinantur ab univerſalibus cauſſis: at generatio morborum eſt effectus particularis. Ergo ad cauſſam univerſalem & cœleſtem referri non debet. Quippe falſum eſt, quod Philoſophus eodem in loco univerſales cauſſas à generatione excludit, quatenus aut determinant, aut determinantur. Etenim contendit ibidem Stagirita, concedendum eſſe aliquod principium activum mobile, quod per ſuam præſentiam & abundantiam intendat varietatem circa generationem & corruptionem inferiorum corporum, cujuſmodi ſunt corpora cœleſtia. Atque hac ratione inferius vocatur inſtrumentum ſuperioris, quia inſtrumenti eſt parare materiam, principaliter agentis eam informare. Hinc ita pronunciat 2. *Phyſ. T.* 20. ἄνθρωπος ἄνθρωπον γεννᾷ καὶ ἥλιος. Neque etiam officiat autoritas Averrois, qui 1. *de cœlo comm.* & aliis in locis, aſſerit, corpora cœleſtia adverſa nobis eſſe non poſſe, niſi hoc univerſum corrumpi neceſſe eſſet. Item, aſtrorum non eſſe maleficia, ſed beneficia. Quandoquidem libenter concedimus, quod aſtra ſint bona DEI creatura, neque per ſe ἐνεργείας κακὰς intendant; quatenus verò ad univerſi conſervationem, generationem & corruptionem viciſſitudo neceſſaria eſt, eatenus etiam aſtra non tantùm ortus, ſed & interitus cauſſa philoſopho habentur, 2 *de generat. & corrupt. text.* 56. Proinde aſtra non mali quid ſimpliciter intendunt, ſed per accidens id fit: Corrumpunt nimirum per accidens, ut generent per ſe. Per accidens deſtruunt, ut per ſe conſervent. Hinc motus, poſitus & influxus cœleſtes, non omnes æquè omnibus hominibus ſalutares, & eorum valetudini utiles eſſe obſervatum eſt ab Hippocrate, *lib. de aëre, aquis & locis.* Ipſaq́ue experientia teſtatur, quod coitus configurationeſq́ue planetarum, præſertim ſuperiorum, Eclipſes, & nova Phœnomena cœleſtia, ſemina malorum, exempli gratia, dyſenteriæ, pleuritidis, anginæ, tuſſis, catarrhorum, carbunculorum, variolarum, morbillorum, ipſiuſque

peſtis

pestis ad nos dimittant, quæ ex abditis & infensis aëris constitutionibus & forti astrorum influxu ortum ducunt. Magnam enim vim in hæc inferiora inesse conjunctioni aut commixtioni trium superiorum Planetarum, præsertim ubi crebra & totalia accedunt Luminarium deliquia, & Mercurius astet, nemo negare audebit, qui non oscitanter cœli motus & res gestas contemplabitur, non in terrena solùm oculos animumque defigens. Etsi enim non eo inficias, multa particularia loca quandoquidem inquinari halitibus pestilentibus sulphureis & arsenicalibus auris ex abditis terræ cavernis emissis, quibus & metallicos sæpè extingui compertum est; tamen nulla erit unquam putredo adeo magna, quæ in tam amplos atque patentes aëris tractus tantam molem halituum disseminavit, ut simul in pluribus, eisque remotissimis locis, fomitem in aëre pestilentis malignitatis accenderit, multosque annos duraverit: unde necesse est, ut interdum solo influxu & virtute occulta stellarum citra aëris putredinem, calidamque & humidam dispositionem morbi maligni, ipsaq; pestis produci possint. Sæpè enim animadversum est, æstatem ferventissimam nullum pestilentiæ genus protulisse, interdum pestilentiam hieme initium cepisse, quæ æstate media soluta sit, sicut id pluribus inculcat Fernelius, *lib. 2. de abdit. rer. causs. cap. 12.*

Ab Abbate Urspergensi, Cuspiniano, aliisque historicis traditum est, Anno 1125. tantam pestem Europæos afflixisse, ut tertia pars hominum interiisse credita sit, & vix qui cadavera sepelirent, superstites fuerint. Eo tempore constat sub ♍ signo coiisse Saturnum, Jovem & Martem, nec non præcessisse frequentes Luminarium obscurationes; Qui sequutus est deinceps truculentus pestilentiæ morbus, anno 1345. is in Asia incepit, & tandem in Europam penetravit, quam adeo vastavit, ut ferè quinquennij spacio dimidia hominum pars extincta sit, ut in Chronico Belgico, Citizensi alijsque legere est. Eo quoque tempore superiores synodum in aquario mense Martio celebrarunt. Hanc pestem & Avignioni in Galliis valdè grassatam esse, scribit Guido de Cauliaco, *in Chirurg. sua tract. 2. capite 5.* Alia rursus pestilitas Europam pervasit, anno 1484. Saturno & Jove in Libra copulatis, ubi adversi atque infesti diametrales Martis radii accesserunt. Ne hîc memorem illam pestem, quæ post conjunctionem superiorum in Leo-

ne multis in locis grassata est, de qua alibi à me dictum. Concludo igitur, Astrorum influxus morbos non per se, sed per accidens inferre & significare posse, easque circa primum decubitus ægrorum tempus, & in diebus decretoriis magnam vim obtinere.

Finis tertiæ sectionis Pædiæ Astronomicæ continuatæ altera in parte.



EPHEMERIS
MOTUUM COELESTIUM
ad annum æræ Christianæ M. DC. XLI.

Annus hic est primus à Bisextili, cujus Character est Periodus Scaligerana 6354.

Numerantur

A Condito Mundo secundum Sethi Calvisij supputationem.	Anni	5590.
A Diluvio.		3934.
Ab Exitu Israëlitarum ex Ægypto.		3138.
Ab anno Nabonazaræo.		2389.
Ab anno Olympiadico.		2416.
Ab obitu Alexandri Magni.		1964.
Ab anno Juliano.		1685.
A passione & morte Christi.		1608.
Ab anno æræ Diocletianæ.		1357.
Ab Hegira seu fuga Mahometis.		1050.
A Correctione Calendarij Gregoriana.		59.

In Juliano.		*In Gregoriano.*
8.	Aureus Numerus.	8.
26.	Cyclus Solis.	26.
C.	Literæ Dominicales.	F.
9.	Indictio Romana.	9.
28.	Epactæ.	18.
Hebd. 10. dier. 2.	Intervallum minus.	Hebd. 6. dier. 5.

Festa mobilia & immobilia præcipua secundum utrumq; Calendarium, Julianum & Gregorianum ad dies suos asscripta in Ephemeridibus inveniuntur.

Hoc anno Ingressus Solis in quatuor puncta signorum Cardinalium, ad Meridianum Uraniburgicum & tempus apparens, accidit Juliano Stylo.

☉ in	♈	Die	9	Martij.	H. 16.	Min.	48.
	♋	Die	10	Junij.	H. 20.	Min.	11.
	♎	Die	12	Septem.	H. 10.	Min.	44.
	♑	Die	10	Decem.	H. 22.	Min.	17.

DE ECLIPSIBUS LUMINARIUM
per Annum M. DC. XLI.

QUadrigam Eclipſium pleriſq; annis ſolennem etiam præſens hic annus 1641. revehit, duas Solis, & Lunæ totidem: etſi una duntaxat Lunæ, eaq; penultima in noſtra videbitur Europa. Nos igitur in hac Ephemeridum parte ad experiendam fidem præmiſſæ noſtræ Eclipſigraphiæ, & revidendum calculum Origani, ſicubi correctione indigeat, in illis quoq; Eclipſibus, quæ ad Antipodas & Periœcos noſtros ſpectant, atq; in altero hemiſphærio obſervabuntur, exercebimus, ut diligentiam Dni. Origani ac Kepleri æmulemur, noſq; ad ſequentes reliquorum annorum Eclipſes, ubi nullius Ephemeridiſtæ veſtigia amplius apparebunt, præparemus. Et forſan etiam reperientur nonnulli Aſtrophili in America, & inferiore hemiſphærio, qui ex amore medendi defectui Geographiæ ad hæc loca per navigia delati harum Eclipſium obſervationi invigilabunt, atq; inde Meridianorum differentiam emendabunt, eiuſq; fructum ad publicam utilitatem referent. Ad quem finem etiam præfati Aſtronomi reſpexerunt. Brevior autem ero in recenſendis illis defectionibus Luminarium, quæ infra terram apparebunt: prolixior autem in illis quæ à nobis Europæis conſpicientur. Et quicquid in prima Ephemeridum parte breviùs de Eclipſibus infra terram dictum eſt, illud cum bono Deo in anniverſariis meis Prognoſticis fuſiùs proſequar.

I. ECLIPSIS LUNÆ.

TEmpus æquale mediæ ☍ ☽ Uraniburgi accidit die 15 Aprilis, S.V hora 4/15 min 36 ſec. à media nocte Intervallum inter mediam & veram ☍ addendum eſt 8 hor. 40/21//. Ita ut tempus apparens & correctum veræ ☍ contingat Uraniburgi hora 1. min. 5 ſec 13 poſt meridiem. Medium autem tempus, quod ſemper in Ephemeridibus ponitur incidit in hor. 12. 55/57//. meridianam. Luminaria ad hoc tempus inveniuntur, & primò quidem ☉ in 5 gr. 34. ʹ3. ♉. ☽ in 5 gr. 34/1. // ♏. Anomalia ☉ 4 Sex. 57 gr. 10/46//. Anomalia ☽ coæquata 2 Sex. 26 gr 3ʹ/2// Latitudo vera Merid. Deſc. 33/58// Semidiameter ☽ ſimplex 17 S 7//. Semidiameter umbræ terræ 46 S 31 //. Variatio umbræ ſubtrahenda 9//. Correcta Semidiameter umbræ terræ 46 S 22//. Aggregatum SS d d. 63 S. 29 //. Pars deficiens reſpectu totius diametri ☽ 29 S 31//. Hinc digiti Ecliptici proveniunt decem, 20/48//. Proinde qui habitant in Longitudine Terræ, quæ ab Uraniburgico Meridiano per 10 horas 55/verſus ortum removetur, in Longitudine nimirū terræ 200 & dimid. gr. illi Eclipſin ☽ in Meridiano obſervabunt; cujuſmodi ſunt populi qui habitant in Inſulis Salamonis, in Inſula de la Agnada, non procul à nova Guinea, & Mexicana, in Quivira, extremitate Occidentalis Mexicanæ, ubi inveniuntur noſtri Antipodes & Periœci: illis enim media nox eſt, quando nobis eſt meridies, & quando nobis eſt media nox, illis eſt meridies. Huc & pertinent populi qui regnum Chinarum habitant, vicinumq; magni Chami, & qui habitant in Oceano Magellanico verſus Auſtrum, in Beach, Malatur, in Meaco regia Japoniæ Inſula, in extremitate Orientali novæ Guineæ & in Inſulis de la Magdalena. Tempus incidentiæ Eclipſis ferè ſeſe ad ſeſquihoram & tota duratio ad trihorium extendit, atq; in illis regionibus quarum Latitudo major eſt 50 gradibus minor hæc Eclipſis conſpicietur. Typum autem Eclipſium nobis non apparentium omiſi ad minuendos harum Ephemeridum ſumtus, & quod quantitatem earum ex digitis Eclipticis & Latitudine ☽ quiſq; facilè æſtimare poſſit.

II. ECLIPSIS SOLIS.

*Media ☌ ☉ ☽ in hâc Eclipſi accidit Uraniburgi die 29 Aprilis, S V. hora 10, 37/37// à meridie. Intervallum mediæ & veræ ☌ ſubtrahendum eſt 48 4 Tempus apparens veræ ☌ fit hora 9 59/25// poſt merid. Medium h 9 49 ...
Quo tempore Anomalia ☉ invenitur 5 Sex 11 gr 30/33//. Anomalia ☽ coæquata 5 Sex 38 gr. 49/7//. Loca Luminarium in 19 gr. 2ʹ/30.// ♉, Motus Latitud. Lunæ coæq 3. Sex. 7 gr. 58/30// Latitudo ☽ vera Merid Aſc. 41/34//. Cum autem hæc ☌ nobis ecliptica eſſe nequeat, eò quod Luminaria ſint infra Horizontem conſtituta: idcirco nobis inveſtiganda ſunt hujuſmodi loca, in quibus vera ☌ cum viſa in 90 Eclipticæ gradu concurrat, qualia ſunt loca, quæ ſita ſunt ſub ...*

situdine 261 gr. 5/ & Latitud. Austr. 31 gr. Quo spectant illi populi qui habitant in vastissimo Oceano Magellanico versus Austrum, in Occidentali Peruana parte, in parte Americæ Meridionali, quæ adjacet Chili regioni, supra mare del Zur seu mare pacificum, in mari Indico Occidentali, in Insulis infra Cubam Occidentalioribus, in illis terræ locis, quæ Hispaniæ nova adjacent: Illis enim Luminaria in meridie hora 12 min. 56 sec 44// in nonagesimo gradu versabuntur, & ☉ integer ferè obscurabitur: nam illi sunt nobis per 9 hor. 7/ 41// Occidentaliores & subjacent Latitudini loci 31 gr. Illa verò loca quæ propius Æquatori adjacent sub eadem Longitudine, ut sunt Peru Australe, Lima, Panama, Sagienni, Caribut, Isthmus Mexicanus, & Insulæ Salamonis, ibi Eclipsis ☉ brevior erit: illis autem, qui sub præfata Latitud. 31 gr. Austr. inveniuntur, omnium erit maxima: nam ibi datur Altitudo ☉ 35 gr. 39/. Distantia ☉ à meridiano 25 gr 12/ Parallaxis ☉ 2/ 19. Parallaxis Latit. ☽ 46/10//. Parall. Lat. ☽ à ☉ in Septentr. 43/51 // visa Latitudo ☽ Sept. 2/17//. Semidiameter ☉ 15/5//. Semidiameter ☽ 15 S 19//. Aggreg. SSdd 30 S 24//. Pars deficiens 28 S 7//. Hinc prodeunt digiti Ecliptici 11 & 11/ Verus motus horarius ☽ à ☉ est 25/ 29// visus 13/42//. Ita ut tempus incrementi sese extendat ad duas horas, & tota duratio ferè ad quatuor. Tu diligens Astrophile habes hic materiam Te exercendi in Eclipsigraphia. Vos verò periti sideralis scientiæ, qui forte ad hæc loca devenitis, habetis ansam hanc Eclipsin observandi, eiusq; τήρησιν mecum communicandi, ut conjunctas operas ad emendationem differentiæ Longitudinum locorum conferamus.

III. ECLIPSIS LUNÆ IN NOSTRO HORIZONTE CONSPICUÆ CALCULUS.

	Sexag. vel dies	Gradus vel hora	M /	S //
Media ☍ accidit	9. Octob. a m.	8	19	54
Intervallum int. med & veram Syzygiam subtr.		11	45	36
Tempus medium veræ ☍	8 Octob. p m	7	54	18
Tempus apparens veræ ☍		8	1	50
Anomalia ☉	1	51	5	5[illegible]
Longitudo ☉ vera	3	25	35	40
Anomalia ☽ coæquata	4	56	56	52
Longitudo ☽ vera	0	25	36	41
Argumentum Latit. ☽	2	52	42	59
Latitudo ☽ Septentr. D.	0	0	37	59
Semidiameter ☽ simpl.			15	S50
Mutatio Semid. ☽ ob elev. poli A in Hvena.			2	20
Correcta Semid. ☽.			18	S.0
Semidiameter umbræ terræ			43	S53

	Sexag vel dies	Gradus vel hora	M /	S //
Variatio umbræ subtr.			0	22
Correcta Semid. umbr. T.			43	S31
Aggregatum SSdd.			61	41
Pars deficiens respectu totius Diametri ☽			23	42
Hinc digiti Ecliptici		7. D.	49	39
Scrupula casus s. incident			48	36
Quæ divisa per motum horarium ☽			29	17
Tempus incidentiæ ostend.		1	39	35
Ut tota duratio sit		3	19	10
Latia ☽ ad Ecl. initiũ S. D.			42	32
Latia ☽ ad Ecl. finem S. D.			33	26
Et initium Eclips. in Meridiano Uraniburg. p.m.		6	22	15
Medium seu vera ☍ tempore apparente		8	1	50
Finis tempore apparente		9	41	25

Hic Dn. Origanus lapsu forsan calculi durationem huius Eclipsis per semihoram longiorem quàm revera futura est ponit. Ille enim ponit 3 hor. 49/ 36// cùm saltem sit 3 hor. 19/10//. Vides igitur fructum retexti calculi. Cæterùm quæ nobis per trihorium & quinquaginta octo minuta Orientaliores sunt sub Longititud. 96 gr. 17/ ceu sunt illi populi qui habitant ad Marmoream civitatem Moscovitici Imperatoris, ad Hyrcaniam, Schytato, ad caput de Obii, ubi fluvius Obii in Oceanum Tartaricum influit, & in quadam Persiæ parte, ex. gr. ad Susan vel Sostrum & Ormum ac Ecbatanam quæ hod. Tauris dicta, & ad radices montis Orontæ in Armenia sita est, atq; 8 dierum itinere à mari Caspio remota, hanc Eclipsin in ipso Meridiano videbunt.

Quartæ Eclipsis calculus videatur in fine huius Ephemeridis.

8 Octobr.



150 pro Syl [illegible] complet anni Radix

Styl. Veteri	Stylo Novo	♄ Longit. ♒ G. M.	Lat M. D I	♃ Longit. ♑ G. M.	Lat M. A O	♂ Longit. ♈ G. M.	Lat S A O	☉ Longitudo ♑ G. M. S.	♀ Longit. ♒ G. M.	Lat M D I	☿ Longit. ♑ G. M.	Lat S A Z	☽ Longit. ♑ G. M.	Latit. S A	☊ Longit. ♏ G. M.
1	11	28.21	31	20.13	17	13.46	16	21.46.47	19.51	39	23. 7	59	21. 5	4 26	17.42
2	12	28.27	31	20.27	17	14.24	17	22.48. 2	21. 5	38	21.52	37	♒ 5. 32	4 52	16.55
3 ☉	13	28.34	31	20.41	17	15. 1	18	23.49.15	22.19	37	20.29	15	19.38	D 5 2	16.14
4	14	28.40	31	20.55	17	15.39	19	24.50.28	23.34	37	19.11	23	♓ 3. 20	4 51	15.52
5	15	28.47	31 A	21. 9	17	16.17	20	25.51.40	24.48	36	18. 1	31 D	16.30	4 27	15.4
6.	16	28.53	31	21.22	17	16.55	21	26.52.51	26. 2	35	16.58	27	29 26	3 49	16.
7	17	29. 0	31	21.36	17	17.33	22	27.54. 2	27.16	34	16. 2	22	♈ 11.52	3 0	16.31
8	18	29. 7	31	21.50	17	18.11	22	28.55.12	28.30	33	15.13	17	23.59	2 4	17.
9	19	29.14	31	22. 4	17	18.49	23	29.56.21	29 44	32	14.33	12	♉ 5. 53	1 5	17.4
10 ☉	20	29.20	31	22.18	17	19.27	24	♒ 0. 57.29	♓ 0 58	31	14. 3	7	17.40	0 4	18.1
11	21	29.27	31	22.32	17	20. 5	25	1. 58.36	2. 12	30	13.42	2	29 24	M 0 58	18.3
12	22	29.34	31	22.46	18	20.43	26	2. 59.42	3. 26	29	13.30	Z 52	♊ 11.12	1 57	18.5
13	23	29.41	31	23. 0	18	21.21	27	4. 0. 47	4. 40	27	13.28 Dir.	42	22. 9	2 52	18.5
14	24	29.48	31	23.14	18	21.59	28	5. 1. 51	5. 53	26	13.33	32	♋ 5 18	3 40	18.5
15	25	29.55	31	23.28	18	22.37	29	6. 2. 53	7. 7	24	13.43	22	17.42	4 18	18.
16	26	♓ 0 2	31	23.42	18	23.15	29	7. 3. 54	8. 20	23	13.59	12	♌ 0. 23	4 46	17.2
17 ☉	27	0. 9	31	23.55	18	23.53	30	8. 4. 54	9. 34	21	14.21	1	13.20	4 58	16.3
18	28	0. 16	31	24. 9	18	24.31	31	9. 5. 53	10.47	19	14.49	I 50	26 31	D 4 55	15.4
19	29	0. 23	31	24.23	18	25. 9	32	10.6. 51	12. 1	17	15.24	39	♍ 9. 55	4 35	15.1
20	30	0. 30	31	24.37	13	25.48	33	11.7. 48	13.14	16	16. 5	28	23.28	4 1	14.59
21	31 Fe.	0. 37	31	24.51	18	26.26	34	12.8. 44	14.28	14	16.53	17	♎ 7. 8	3 11	15.
22	1	0. 44	31	25. 5	18	27. 4	35	13 9. 38	15.41	12	17.45	6	20 54	2 11	15.2
23	2	0. 51	31	25.19	18	27.43	36	14.10.30	16.55	9	18.39	⊕ 56	♏ 4 46	1 2	16.
24 ☉	3	0. 58	31	25.33	18	28.21	36	15.11.20	18. 8	7	19.34	45	18.44	S 0 10	16.4
25	4	1. 5	31	25.47	19	28.59	37	16.12. 9	19.22	5	20.30	35	♐ 2 48	1 23	17.2
26	5	1. 13	31	26. 0	19	29 38	38	17.12.57	20.35	3	21.27	24	16.59	2 32	17.5
27	6	1. 20	31	26.14	19	♉ 0. 16	39	18.13.44	21.49	0	22.27	15	♑ 1. 15	3 30	18.
28	7	1. 27	32	26.28	19	0. 54	40	19.14.29	23. 2	O 58	23.31	6	15.32	4 16	17.1
29	8	1. 34	32	26.42	19	1. 32	41	10.15.13	24 15	55	24.39	M. 3	29 47	4 46	17.2
30	10	1. 42	32	26.56	19	2. 11	42	21.15.54	25.28	53	25.50	12	♒ 13 54	4 58	16.3
31 ☉	10	1. 49	32	27 10	19	2. 49	43	22 16.33	26 41	50	27. 3	21	27.46	4 52	15.5

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Occid.	♃ Oriēt.	♂ Occid.	☉	♀ Occid.	☿ Occid.		
1 Circumcis. 2			 ✱16	☌ 1. 13.		☌ 3. Orien.	☌☉☿14. SS♃♀ ☌♃☿23. SS♀☿	11 Januar. 12
3 C. 4 Telesph.	☌15				☌5			13 *F 1.p.Eph.* 14 Felix
5 Simeon 6 Epiphan.		✱ 8.		✱ 19		✱2.	 □♂☿1	15 16 Marcell.
7 Iulian. 8 Erhardus	 ✱10.	□ 19.	☌ 12	 □10.53	 ✱ 11	□ 8	 ☌♄♀13 SS ☉♄	17 Anton. 18 Prisca
9 10 *C.1.p.Ep.*		 △9.				△ 17	SS ☉♀ ☽☋	19 20 *F.2.p.Ep.*
11 Hyginus 12	□ 0		 ✱ 20.	△ 6	□ 6.		 ☽ Apogæa.	21 Agneta 22 Vincent.
13 Hilarius 14 Felix	△ 13				 △ 1	 ☍16		23 24 Timoth.
15 16 Marcell.		☍ 11	□ 10	 ☍13.26				25 Conv. P. 26 Polycar.
17 *C.2.p Ep.* 18 Prisca	 ☍7.		△ 20				□♃♂2	27 *F.Sept.* 28
19 20 Fab & S.		 △ 2			☍4	△ 12.		29 30 Adelgu.
21 Agneta 22 Vincent.	 △ 17	 □ 7.	 ☍11	△9.		□ 18.		31 1 Februar.
23 24 *C.3.p. Ep.*	 □21	 ✱ 12		□17.25	△ 23	 ✱1.	☽ ☊	2 Purif. M. 3 *F.Sexag.*
25 Conv. Pa. 26 Polycar.			 △ 22.	 ✱ 0.	 □ 6.		☽ Perig.	4 5 Agatha
27 28	✱0	 ☌19			 ✱14	 ☌ 15	Q☉♂. ☿ Elóg ((Maxima à ☉	6 Doroth. 7
29 30 Adelgun.			□ 3	 ☌13.46			✱♄♂1. (☌♃☿3	8 9 Apollon.
31 *C. 4.p Ep.*	☌ 7		✱ 9.				✱♀☿ferè✱♃♀12	(10 *F.Eſt.M.*

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♓	M A b	♑	M A O	♉	S A O	♒	♓	M D O	♑	M A O	♓	S	♏
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	B	G. M.
1	11	1. 56	32	27.24	19	3. 27	43	23.17.11	27.54	48	28.18	30	11.19	4 29	15. 3
2	12	2. 3	32	2.737	19	4. 6	44	24.17.48	29. 7	45	29.34	38	24.30	3 53	14.30
3	13	2. 10	32	27.51	19	4. 44	45	25.18.23	♈ 0. 19	43	♒ 0 52	45	♈ 7. 18	3 4	14.15
4	14	2. 18	32	28. 4	20	5. 23	45	26.18.55	1. 32	40	2. 12	52	19 44	2 10	14.17
5	15	2. 25	32	28.17	20	6. 1	46	27.19.26	2. 44	38	3. 34	-1- 0	♉ 1 53	1 10	14.33
6	16	2. 33	32	28.30	20	6, 40	46	28.19.54	3. 56	35	4. 59	7	13 48	0 7	15. 1
7	☉17	2. 40	32	28.43	20	7. 18	47	29.20 21	5. 9	32	6. 21	13	25.35	-M- 0 55	15.34
8	18	2. 48	32	28.56	20	7. 57	47	♓ 0. 20 46	6. 21	28	7. 43	19	♊ 7. 19	1 54	16. 9
9	19	2. 55	32	29. 9	20	8. 35	48	1. 21,10	7. 33	25	9. 6	25	19 7	2 49	16.42
10	20	3. 2	32	29.22	21	9. 14	48	2. 21.32	8. 46	21	10.29	31	♋ 1. 4	3 37	17. 6
11	21	3. 10	32	29.35	21	9. 52	49	3. 21.52	9. 58	18	11.52	37	13 16	4 17	17.39
12	22	3. 17	32	29 48	21	10.31	49	4. 22.10	11.10	14	13.17	41	25 46	4 44	17.1
13	23	3. 24	32	♒ 0. 1	21	11. 9	50	5. 22,25	12,22	11	14.45	45	♌ 8 37	4 59 D	16.5
14	☉24	3. 32	32	0, 14	21	11.48	50	6. 22.39	13.34	7	16.16	50	21 49	4 59	16.18
15	25	3. 39	32	0, 26	21	12,26	51	7. 22,51	14.46	4	17.48	54	♍ 5. 20	4 41	15.31
16	26	3. 46	32	0. 39	22	13. 5	51	8, 23. 1	15.58	1	19.22	58 -Z	19 8	4 6	14.40
17	27	3. 54	32	0, 52	22	13.43	52	9. 23,10	17.10	-S- 3	20.57	♀	♎ 3. 8	3 17	13.57
18	28	4. 1	32	1. 4	22	14.22	53	10.23.16	18,21	7	22.32	3	17.15	2 15	13.39
19	Mar. 1	4. 8	32	1. 17	22	15. 1	53	11.23.20	19.33	10	24. 7	5	♏ 1. 26	1 5 S	13.26
20	2	4. 16	32	1. 29	22	15.39	54	12.23.23	20.45	14	25.43	7	15.35	0 10	13.42
21	☉3	4. 23	32	1. 41	22	16.18	54	13,23.23	21.56	17	27.19	10	29 42	1 24	14.16
22	4	4. 30	32	1. 54	23	16.56	55	14.2321.	23. 7	21	28.56	10	♐ 13 46	2 33	14.58
23	5	4. 37	32	2. 6	23	17.35	55	15.23.17	24.18	25	♓ 0. 35	10	27 46	3 32	15.40
24	6	4. 45	32	2. 18	23	18.13	56	16,23.10	25.29	28	2. 16	11	♑ 11 43	4 18	16.14
25	7	4. 52	32	2. 30	23	18.52	56	17,23. 0	26,40	32	3. 59	11 D	25.35	4 49	16.33
26	8	4. 59	32	2. 42	23	19.30	57	18.22.48	27.51	36	5. 44	11	♒ 9. 22	5 3	16.32
27	9	5. 6	32	2. 54	23	20. 9	57	19.22.34	29. 1	40	7. 29	10	23. 0	-D- 5 0	16.11
28	☉10	5. 13	32	3. 6	23	20.47	58	20.22,19	♉ 0. 12	44	9. 15	9	♓ 6 28	4 39	15.33

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid.	♃ Oriēt.	♂ Occid.	☉	♀ Occid.	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Brigitta 2 Purif. M.		✱ 6			☌ 9.	✱ 10.		11 Februar. 12
3 Blasius 4		□ 17.		✱ 14			SS ♄♀. SS ♄☿	13 Cinerum 14 Valentin.
5 Agatha 6 Dorothea	✱ 1		☌ 9			□ 4	☽☋. SS ☉♃	15 Faustin. 16 Julian.
7 *C. 5. p. Ep.* 8	□ 14.	△ 6.		□ 8. 23	✱ 21.	△ 1	☽ Apog. □♂☿ 7.	17 *F. Quad.* 18 Concord.
9 Apollon a 10 Scholast.	△ 4		✱ 17	△ 3	□ 17		☌☉♄ 18. SS ♂♀	19 20
11 12	Orien.	☍ 7.					Q ♃♀	21 22 Cat. Pet.
13 14 *C. 6. p Ep.*	☍ 21		□ 5		△ 7.	☍ 13		23 24 *F. Remin.*
15 Faustin. 16 Julian.		△ 20.	△ 13	☍ 3. 51				25 26
17 18 Concord					☍ 2	△ 10		27 28 Roman.
19 20	△ 4.	□ 0	☍ 0	△ 18		□ 19.	☽ ☊ ☽ Perig.	1 Martij 2 Simplic.
21 *C. Sept.* 22 Cat. Pet.	□ 8	✱ 3.		□ 1.8.	△ 17		Q ♄♂	3 *F. Oculi* 4 Adrian.
23 24 Matthias	✱ 12		△ 12	✱ 9		✱ 5	SS ♃☿	5 6 Fridelin.
25 26		⁄ 12	□ 19		□ 2.		☌♄☿ 13.	7 Perpetua 8
27 Leander 28 *C. Sex.*	☌ 22				✱ 12	☌ 4	Q ♂☿ Td ♃♂	9 10 *F. Lætare*

Styl. Veteri	Stylo Novo	♄ Longit ♓ G. M.	Lat M A I	♃ Longit. ♒ G. M.	Lat M A O	♂ Longit ♉ G. M.	Lat S A O	☉ Longitudo ♓ G. M. S.	♀ Longit. ♉ G. M.	Lat S A O	☿ Longit. ♓ G. M.	La. M D Z	☽ Longit. ♓ G. M.	Latit. S D	☊ Long. ♍ G. M.
1	11	5. 20	32	3. 18	24	21.26	58	21.22. 2	1. 22	48	11. 1	7	19.41	4 5	14.45
2	12	5. 28	33	3. 29	24	22. 4	59	22.21.43	2. 32	52	12.48	3	♈ 2. 38	3 18	13.5
3	13	5. 35	33	3. 41	24	22.43	59	23.21.21	3. 42	55	14.37	0 I	15.17	2 21	13.1
4	14	5. 42	33	3. 52	24	23.21	59 -I	24.20.57	4. 52	59	16.28	56	27.39	1 21	12.5
5	15	5. 49	33	4. 4	24	24. 0	0	25.20.31	6. 2	-I- 3	18.21	53	♉ 9 45	0 16	12.3
6	16	5. 56	33	4. 15	24	24.38	0	26.20. 3	7. 12	7	20.15	50	21.41	M 0 48	12.44
7	☉17	6. 3	33	4. 26	25	25.17	0	27.19.33	8. 21	11	22. 9	44	♊ 3. 28	1 49	13.
8	18	6. 10	33	4. 37	25	25.55	1	28.19. 1	9. 31	14	24. 4	38	15.13	2 51	13.3
9	19	6. 17	33	4. 48	25	26.33	1	29.18.27	10.41	18	26. 0	32	27. 2	3 36	14.
10	20	6. 24	33	4. 59	25	27.12	1	♈ 0. 17.50	11.50	22	27.57	26	♋ 8 59	4 17	14.4
11	21	6. 31	34	5. 10	25	27.50	2	1. 17.11	12.59	26	29.55	20	21.11	4 47	15.1
12	22	6. 37	34	5. 20	25	28.29	2	2. 16.30	14. 8	29	♈ 1. 54	12	♌ 3. 41	5 5	15.3
13	23	6. 44	34	5. 31	26	29. 7	2	3. 15.46	15.17	33	3. 55	3 0	16.34	D 5 9	15.4
14☉	24	6. 51	34	5. 41	26	29.46	2	4. 15. 0	16.26	37	5. 57	55	29.51	4 54	15.3
15	25	6. 58	34	5. 52	26	♊ 0 24	3	5. 14.12	17.34	41	8. 0	46	♍ 13.33	4 24	15.
16	26	7. 4	34	6. 2	26	1. 3	3	6. 13.21	18.43	44	10. 4	38	27.37	3 38	14.
17	27	7. 11	34	6. 12	26	1. 41	3	7. 12.28	19.51	48	12. 8	27	♎ 11 56	2 38	13.
18	28	7. 17	34	6. 22	26	2. 20	4	8. 11.33	20.59	52	14.12	17	26.28	1 23	12.
19	29	7. 24	35	6. 32	27	2. 58	4	9. 10.36	22. 7	55	16.15	7	♏ 11. 8	0 6	12.
20	30	7. 30	35	6. 41	27	3. 37	4	10.9. 37	23.15	59	18.18	S 4	25.44	S 1 14	11.
21☉	31	7. 37	35	6. 51	27	4. 15	5	11.8. 36	24.22	-Z- 3	20.21	14	♐ 10.14	2 27	12.
22	Ap 1	7. 43	35	7. 0	27	4. 53	5	12.7. 34	25.29	6	22.24	26	24.32	3 31	12.
23	2	7. 49	35	7. 10	27	5. 32	5	13.6. 30	26.36	10	24.26	38	♑ 8. 38	4 22	13.1
[illegible]	3	7. 56	35	7. 19	28	6. 10	6	14.5. 23	27.43	13	26.27	49	22 29	4 55	13
[illegible]	[illegible]	[illegible]	35	7. 28	28	6. 48	6	15.4. 13	28.49	16	28.27	-I- 1	♒ 6 8	5 11	14
[illegible]	[illegible]	[illegible]. 6	35	7. 37	28	7. 27	6	16.3. 0	29.55	20	♉ 0 26	13	19.34	D 5 11	14
[illegible]	[illegible]	[illegible]. 15	35	7. 46	28	8. 5	6	17.1. 45	♊ 1. 1	23	2. 20	23	♓ 2. 48	4 53	15.
[illegible]	[illegible]	?. 21	36	7. 55	28	8. 43	7	18.0. 29	2. 7	26	4. 8	32	15.50	4 21	14.
[illegible]	[illegible]	[illegible]. 27	36	8. 4	28	9. 22	7	18.59.12	3. 13	30	5. 49	42	28 40	3 36	14.
[illegible]	[illegible]	[illegible]. 34	36	8. 12	29	10. 0	7	19.57.53	4. 19	33	7. 26	51	♈ 11 17	2 41	13.
[illegible]	[illegible]	[illegible]. 40	36	8. 21	29	10.38	8	20.56.31	5. 24	36	8. 59	-Z- 1	23.41	1 39	12.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Oriét.	♂ Occid.	☉	♀ occid.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Albinus			✱3.	☌3 23			✱☉♂ 4.	11 Martij
2 Simplic.		✱1.						12 Gregor.
3							□♃♀0.	13 Euphras.
4 Adrianus	✱16	□12.			☌16		✱♄♀19.	14
5						✱20.	☽☋	15
6 Fridelin.			☌6.	✱10.			☽ Apog.	16 Cyriacus
7 C *Quin.*	□5.	△2						17 *F. Iudic.*
8						□21.		18
9	△19			□4 58			✱♂☿10	19 Joseph.
10 Cinerum					✱6			20
11			✱13.	△21		△20		21 Benedict.
12 Gregor.		☍1			□21		☌☉☿8.	22
13 Euphra.						occid.	✱♃☿20.	23
14 C *Qua.*	☍14.		□0				SS ♄☿	24 *F. Palma.*
15					△8		✱☉♃18.	25 Ann. M.
16 Cyriacus		△14.	△6	ƒ15.29			SS ☉♄. Q♄♀	26 Castulus
17 Gertrud.						☍0.		27
18	△18	□16.	[illegible]	[illegible]				28
19 Joseph.	tonat	pluit	5	3 p.m.	☍19.		☽☊. ☽ Perigæa.	29 Eustach.
20	□20	✱18.	☍13.				Q♃☿.	30 Guido
21 C. *Rem.*				△1.		△20	Td ♃♀.	31 *F. Pascha.*
22	✱22.							1 Aprilis
23				□8 20				2 Mar. Æg.
24					△10	□8		3
25 Ann. M.		☌2.	△1	✱17			SS ♀☿	4 Ambros.
26 Castulus					□20.	✱23	△♃♂8	5
27	☌10		□10.				□♄♂7.	6
28 C. *Ocul.*								7 *F. Quas.*
29 Eustach.		✱18	✱21.		✱9.			8
30 Guido				☌18.17			✱♄☿19 □♃☿13(	9
31							(Q☉♃.	10

Styl. Veteri	Stylo Novo	♄ Longit ♓ G. M.	Lat M A I	♃ Longit ♒ G. M.	Lat M A O	♂ Longit ♊ G. M.	Lat S A I	☉ Longitudo ♈ G. M. S.	♀ Longit ♊ G. M.	Lat S A Z	☿ Longit ♉ G. M.	La. S A Z	☽ Longit ♉ G. M	Latit S D	Long. ♍ G. M.
1	11	8. 46	36	8. 29	29	11.17	8	21.55. 6	6. 29	39	10.29	11	5. 53	0 33	12.10
2	12	8. 52	36	8. 37	29	11.55	8	22.53.40	7. 34	42	11.53	17	17.55	M 0 33	11.33
3	13	8. 58	36	8. 45	30	12.33	8	23.52.12	8. 39	45	13.16	23	29.49	1 36	11.11
4 ☉	14	9. 4	37	8. 53	30	13.11	8	24.50.42	9. 43	47	14.32	29	♊ 11.37	2 36	11. 4
5	15	9. 10	37	9. 1	30	13.50	9	25.49.10	10.47	50	15.43	34	23.25	3 30	11.12
6	16	9. 16	37	9. 9	30	14.28	9	26.47.36	11.51	52	16.49	40	♋ 5. 15	4 12	11.33
7	17	9. 21	37	9. 16	30	15. 6	9	27.46. 0	12 54	55	17.50	42	17.13	4 48	12. 3
8	18	9. 27	37	9. 24	30	15.44	9	28.44.22	13 57	58	18.45	45	29 23	5 9	12.39
9	19	9. 33	38	9. 31	31	16.22	9	29 42 42	15. 0	0	19.34	47	♌ 11 50	5 17	13.1
10	20	9. 38	38	9. 38	31	17. 1	9	♉ 0. 41 0	16. 3	3	20.17	46	24.40	n 5 9	13.4
11 ☉	21	9. 44	38	9. 45	31	17.39	9	1. 39.16	17. 5	6	20.5	45	♍ 7 55	4 44	14. 3
12	22	9. 49	38	9. 52	31	18.17	10	2. 37.29	18. 7	7	21.27	40	21 36	4 4	14 1
13	23	9. 54	38	9. 59	31	18.55	10	3. 35.41	19. 8	9	21.53	35	♎ 5 43	3 7	13.5
14	24	10. 0	39	10. 5	32	19.33	10	4. 33.51	20. 9	10	22.13	30	20 13	1 58	13.1
15	25	10. 5	39	10.12	32	20.11	10	5. 31.59	21.10	12	22.27	26	♏ 5. 0	0 38 S	12.1
16	26	10.10	39	10.18	32	20.50	10	6. 30. 6	22.10	13	22.36	21	20. 2	0 44	11.2
17	27	10.15	39	10.24	32	21.28	10	7. 28.[illegible]	23.10	15	22.40 Ret.	10	♐ 5. 8	2 4	10.4
18 ☉	28	10.20	39	10.29	32	22. 6	10	8. 26.15	24. 9	17	22.38	1 59	20 6	3 14	10.20
19	29	10.24	40	10.35	32	22.44	11	9. 24.17	25. 8	18	22.34	48	♑ 4 45	4 11	10.2
20	30	10.29	40	10.40	33	23.22	11	10.22.17	26. 7	20	22.21	38	19 3	4 51	10.4
Maij															
21	1	10.33	40	10.45	33	24. 0	11	11.20.14	27. 5	21	22. 0	27	♒ 2 54	5 14	11.26
22	2	10.38	40	10.56	33	24.38	11	12.18.10	28. 3	22	21.32	11	16.32	D 5 16	12. 8
23	3	10.43	40	10.55	33	25.17	11	13.16. 5	29. 0	22	21. 4	0. 56	29.50	5 2	12.46
24	4	10.47	41	10.59	33	25.55	11	14.13.58	29 56	23	20.35	40	♓ 12 49	4 33	13.14
25 ☉	5	10.52	41	11. 4	34	26.33	11	15.11.50	♋ 0. 52	24	20. 6	24	25 33	3 50	13.2
26	6	10.56	41	11. 8	34	27.11	12	16. 9.40	1. 47	24	19.37	9	♈ 8. 3	2 57	13.24
27	7	11. 1	44	11.12	34	27.49	12	17. 7.28	2. 42	24	19. 5	M 9	20.22	1 57	13. 4
28	8	11. 5	41	11.16	34	28.27	12	18. 5.15	3. 36	D 24	18.30	26	♉ 2. 31	0 53	12.31
29	9	11. 9	42	11.20	34	29. 5	12	19. 3. 0	4. 30	24	17.52	43	14 32	M 0 8	11.48
30	10	11.13	42	11.24	35	29.43	12	20. 0.44	5. 23	24	17.11	1	26.27	1 19	11. [illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt	♃ Oriēt.	♂ Occid.	☉	♀ occid	☿ Occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Hugo	⚹ 6	□ 5				☌ 10	☽ ☋	11 Aprilis
2 Mar. Æg.							☽ Apog. SS ♂☿	12 Julius
3	□ 19	△ 18.			☌ 20		□♄♀ 8 △♃♀ 7	13 Justinus
4 C. *Lætare*			☌ 3.					14 *F. Mis. D.*
5				⚹ 5				15 Olymp.
6	△ 8							16
7 Egesipp.				□ 22.37		⚹ 1.	☿ Digres. Max.	17
8		☍ 19.						18 Valerian.
9			⚹ 9		⚹ 6	□ 15		19
10				△ 12			SS ♄♃	20
11 C *Iudic.*	☍ 3		□ 18		□ 17.			21 *F. Iubil.*
12 Julius						△ 0	☌♂♀ 10.	22
13 Justinus		△ 7	△ 23				Q ♄☿	23 Georgius
14 Tiburt.					△ 0			24 Adelber.
15 Olymp.	△ 8	□ 8.		☍ 0.56			☽ ☊ Eclips. ☽.	25 Marcus
16						☍ 4	☽ perig. SS ♀☿	26
17	□ 8	⚹ 8.						27 Anastas.
18 C. *Palm.*			☍ 3.		☍ 7		SS ♂☿	28 *F Cant.*
19	⚹ 9.			△ 8.			Q ♄☿.	29
20						△ 5.	⚹☉♄ 3 □☉♃ 8	30
21		☌ 23		□ 15.59			♀ Distan. M. à ☉	1 Maj *Ph. Ia.*
22			△ 15.		△ 22.	□ 9	Td ♄♀	2
23 Georgius	☌ 20.							3 Invent. ✠
24 Adelb.				⚹ 3		⚹ 14		4 Florian
25 C. *Pasc*			□ 2		□ 11			5 *F. Rog.*
26		⚹ 6						6 Jo. an. p.
27 Anastas.			⚹ 15.					7
28 Vitalis	⚹ 17	□ 17.			⚹ 2	Orien.	☌☉☿ 6 ☽☋	8 Stanisl.
29				☌ 9.50.		☌ 6.	☽ Apog. Td ♄♂	9 Asc. C.
30							Bq. ♃♀ o (Ecl. ☉	10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	Lat	☽ Longit.	Latit	☊ Longit.
		♓	MAI	♒	MAO	♋	SAI	♉	♋	SD 3	♉	MAI	♊	M	♍
		G. M.		G. M		G. M		G. M. S.	G. M.		G. M		G. M	A	M. G
1	11	11.17	42	11.28	35	0. 21	12	20.58.26	6. 16	23	16.31	18	8. 18	2 20	10.22
2	☉12	11.21	42	11.31	35	0. 59	12	21.56. 7	7. 8	22	15.56	34	20 2	3 15	9. 51
3	13	11.25	43	11.35	35	1. 37	12	22.53.47	7. 59	20	25.23	50 2	♋ 1. 59	4 2	9. 33
4	14	11.29	43	11.38	36	2. 15	12	23.51.25	8. 49	19	14.53	6	13.53	4 40	9. 31
5	15	11.33	43	11.42	36	2. 52	12	24.49. 1	9. 39	17	14.25	21	25.55	5 3	9. 43
6	16	11.36	43	11.45	36	3. 30	12	25.46.36	10.28	16	14. 0	37	♌ 8 6	5 16 —D—	10. 8
7	17	11.40	44	11.48	36	4. 8	13	26.44.10	11.17	14	13.40	47	20 33	5 13	10.43
8	18	11 43	44	11.50	37	4. 46	13	27.41.43	12. 5	12	13.23	57 -3-	♍ 3. 18	4 54	11.21
9	☉19	11.47	44	11.53	37	5. 24	13	28.39.15	12.52	11	13.10	6	16 26	4 21	11.58
10	20	11.50	44	11.55	37	6. 2	13	29.36.45	13.38	9	13. 2	16	♎ 0 0	3 31	12.26
11	21	11.53	44	11.57	37	6. 40	13	♊ 0. 34.14	14.23	7	13. 1 Dir.	26	13.59	2 29	12.38
12	22	11.56	45	11.59	38	7. 18	13	1. 31.42	15. 7	4 .Z.	13. 5	31	28.25	1 14 —S.—	12.28
13	23	11.59	45	12. 0	38	7. 55	13	2. 29. 9	15.50	59	13.11	36	♏ 13 13	0 6	11.54
14	24	12. 2	45	12. 2	38	8. 33	13	3. 26.35	16.32	55	13.20	41	28.17	1 28	11. 3
15	25	12. 5	45	12. 3	38	9. 11	13	4. 24. 0	17.13	51	13.33	46	♐ 13.29	2 44	10. 6
16	☉26	12. 8	46	12. 4	39	9. 49	13	5. 21.24	17.52	47	13.50	51	28.39	3 47	9. 18
17	27	12.10	46	12. 4	39	10.27	13	6. 18.47	18.30	43	14.13	52	♑ 13 38	4 35	8. 50
18	28	12.13	46	12. 5	39	11. 5	13	7. 16. 9	19. 7	39	14.41	53 D	28 17	5 5 —D—	8. 47
19	29	12.15	46	12. 6 Ret.	39	11.43	13	8. 13.30	19.43	35	15.14	53	♒ 12.30	5 13	9. 5
20	30	12.18	47	12. 5	40	12.21	13	9. 10.49	20.18	31	15.51	52	26.27	5 4	9. 38
21	31	12.20	47	12. 5	40	12.59	13	10. 8. 7	20.52	27	16.32	50	♓ 9.36	4 37	10.18
22	Iun 1	12.22	47	12. 5	40	13.36	13	11.5. 24	21.24	20	17.17	47	22.31	3 57	10.57
23	☉2	12.24	47	12. 4	40	14 14	13 D	12.2. 41	21.55	13	18. 3	43	♈ 5 6	3 8	11.29
24	3	12.26	47	12. 3	40	14.52	13	12.59.57	22.24	6 -1-	18.51	40	17.25	2 9	11.49
25	4	12.28	48	12. 2	41	15.30	13	13.57.12	22.51	59	19.40	36	29 32	1 7	11.54
26	5	12.29	48	12. 1	41	16. 8	13	14.54.26	23.17	52	20.32	32	♉ 11 31	0 2 —M—	11.44
27	6	12.31	48	12. 0	41	16.45	13	15.51.39	23.41	45	21.30	24	23 23	1 2	11.24
28	7	12.33	48	11.58	41	17.23	13	16.48.52	24. 3	38	22.36	16	♊ 5.13	2 4	10.41
29	8	12.34	49	11.57	42	18. 1	13	17.46.5	24.23	31	23.51	8	17. 3	3 0	9. 58
30	9	12.35	49	11.56	42	18.39	13	18.43.17	24.42	24	25.12	59	28 56	3 47	9. 14
31	10	12.36	49	11.54	42	19.17	13	19.40.29	24.58	17	26 [illegible]	54	♋ 10 52	4 26	8. 30

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Oriēt.	♂ Occid.	☉	♀ occid.	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Phil. Jac.	□ 6	△ 6.						11 Maji
2 C *Quas.*			☌ 23					12 *F. Exau.*
3 Invent. ✠	△ 19				☌ 13		Q☉♄	13 Servat.
4 Florian.				⚹ 21.		⚹ 2		14
5 Gothard.								15 Sophia
6 Io. an. por		☍ 7				□ 11	[illegible]	16 [illegible]
7				□ 12.35			△♄♀ 12 Vc ♃♀	17
8 Stanisl.	☍ 15.		⚹ 3		⚹ 17	△ 18		18 Potent.
9 *C. Mis. D.*				△ 23			⚹♀☿ 8 B q. ♃♂	19 *F. Pent.*
10		△ 20.	□ 11				Td ☉♃.	20
11 Mamert.					□ 1			21
12 Pancrat.	△ 22	□ 22	△ 14.				☽☊	22 Desider
13 Servat.					△ 4.	☍ 0	☽ Perig.	23
14	□ 22	⚹ 22		☍ 8 43			SS ♄♃	24
15 Sophia							✝	25 Urban.
16 *C. Iubil.*	⚹ 21.		☍ 19					26 *F. Trin.*
17					☍ 8	△ 1		27
18 Potent.		☌ 23		△ 15.				28
19 Bernhar.						□ 5	△♄♂ 23	29 [illegible]
20								30 Corp. C.
21	☌ 5		△ 6.	□ 1.4.	△ 22	⚹ 13.		31 Petron.
22								1 Junii
23 *C. Cant.*		⚹ 13.	□ 19	⚹ 15			□☉♄ 9 △☉♃ 0.	2 *F. 1. p. Tr.*
24					□ 10			3 Erasm.
25 Urban.							☽☋	4
26 Beda	⚹ 2	□ 1	⚹ 10			☌ 20	☽ Apog. ☿ lon-	5 Bonif.
27					⚹ 15		gissimè abest à	6
28	□ 15	△ 14					☉)	7
29				☌ 1.34.			⚹♀☿ 12. SS ☉♂	8 Medard.
30 *C. Rog.*							(Q♄☿.	9 *F. 2. p Tr.*
31 Petron.	△ 3.		☌ 16					10 Onephr.

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M.	♄ Lat. M. A. I	♃ Longit. ♒ G. M.	♃ Lat. M. A. O	♂ Longit. ♋ G. M.	♂ Lat. S. D. I	☉ Longitudo. ♊ G. M. S.	♀ Longit. ♋ G. M.	♀ Lat. S. D. II	☿ Longit. ♉ G. M	☿ Lat. M. D. Z	☽ Longit. ♋ G. M.	☽ Latit. M. A.	☊ Longit. ♏ G. M.
1	11	12.37	49	11.52	42	19 54	13	20.37.40	25.12	10	28. 1	43	22 54	4 52	8. 9
2	12	12.38	50	11.49	43	20.32	13	21.34.51	25.25	0 59	29 27	32	♌ 5 3	5 6	7. 57
3	13	12.39	50	11.46	43	21.10	13	22.32. 1	25.36	48	♊ 0. 54	22	17.22	D 5 7	8. 0
4	14	12.40	50	11.43	43	21.48	13	23.29.10	25.46	37	2. 23	12	29 52	4 53	8. 19
5	15	12.41	50	11.40	44	22.25	13	24.26.19	25.54	26	3. 54	2	♍ 12 36	4 21	8. 51
6 ☉	16	12.42	51	11.36	44	23. 3	13	25.23.27	25.59	15	5. 28	1 51	25 39	3 41	9. 30
7	17	12.43	51	11.33	44	23.41	13	26.20.35	26 1	4	7. 5	40	♎ 9 3	2 44	10.1
8	18	12.43	51	11.29	45	24.19	13	27.17.43	Ret. 26. 0	M 6	8. 45	28	22.51	1 37	10.4
9	19	2.44	52	11.25	45	24.56	12	28.14.50	25.56	17	10.28	17	♏ 7 4	0 22	11.
10	20	12.44	52	11.21	45	25.34	12	29 11.57	25.50	28	12.14	5	21 41	S 0 56	11. 0
11	21	12.45	52	11.16	45	26.12	12	♋ 0. 9 4	25.41	39	14. 4	0 54	♐ 6. 38	2 12	10.3
12	22	12.45	52	11.12	46	26.49	12	1. 6. 11	25.30	52	15.57	42	21 47	3 20	9. 4
13 ☉	23	12.45 Ret	52	11. 7	46	27.27	12	2. 3. 18	25.18	1 5	17.53	31	♑ 6. 59	4 14	8. 4
14	24	12.45	53	11. 2	46	28. 4	12	3. 0. 25	25. 4	19	19.51	19	22. 5	4 48	7. 5
15	25	12.45	53	10.57	47	28.42	12	3. 57.31	24.48	32	21.50	8	♒ 6. 53	5 4	7. 2
16	26	12.45	53	10.52	47	29.19	12	4. 54.37	24.30	45	23.52	4	21.17	D 4 59	7. 1
17	27	12.44	53	10.46	47	29 57	12	5. 51.43	24. 9	59	25.57	14	♓ 5. 13	4 37	7. 2
18	28	12.44	54	10.41	48	♌ 0 35	12	6. 48.49	23.46	Z 13	28. 5	24	18.38	3 59	7. 5
19	29	12.43	54	10.35	48	1. 12	12	7. 45.55	23.21	28	♋ 0. 15	35	♈ 1 .36	3 11	8. 2
20 ☉	30	12.43	54	10.29	48	1. 50	12	8. 43. 1	22.23	42	2. 28	45	14.10	2 14	9.
21	Iul. 1	12.42	54	10.23	49	2. 28	12	9. 40. 7	22.53	56 3	4 .44	55 1	26 25	1 13	9. 3
22	2	12.41	54	10.17	49	3. 6	12	10.37.13	21.52	10	6 .58	2	♉ 8. 26	0 10	10.
23	3	12.40	55	10.11	49	3. 43	11	11.34.19	21.19	24	9. 8	9	20 18	M 0 53	10.1
24	4	12.39	55	10. 5	49	4. 21	11	12.31.26	20.45	38	11.18	16	♊ 2. 6	1 53	10.1
25	5	12.38	55	9. 58	50	4. 59	11	13.28.33	20.10	52	13.27	23	13.54	2 49	10.
26	6	12.37	55	9. 52	50	5. 37	11	14.25.41	19.34	4 6	15.36	30	25.46	3 37	9.
27 ☉	7	12.36	56	9. 45	50	6. 15	11	15.22.49	18.57	18	17.44	34	♋ 7. 43	4 16	8.
28	8	12.34	56	9. 38	51	6. 52	11	16.19.57	18.19	30	19.52	37	19.48	4 44	8.
29	9	12.33	56	9. 31	51	7. 30	11	17.17. 5	17.40	42	21.59	40	♌ 2. 1	4 59	7.
30	10	12.31	57	9. 24	51	8. 8	11	18.14.13	17. 1	54	24. 4	43	14.24	D 4 59	6. 4

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Oriēt.	♂ Occid.	☉	♀ occid.	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Nicomed.					☌ 4.	✱ 11.		11 Junij
2 Marcelli.		☍ 13					Td ♃☿	12
3 Asc. C.				✱ 11				13
4						□ 5.		14 Valer.
5 Bonifac.	☍ 0		✱ 19	□ 23.28				15 Vitus
6 C. *Exaudi*					✱ 0.	△ 20	SS ☉♀	16 F 3 *p. Trin*
7		△ 4.						17
8 Medard.			□ 2.	△ 8	□ 5			18
9	△ 9	□ 7					△ ♃☿ 12. ☽☊	19 Gervas.
10 Onophr.			△ 6.		△ 6.		□ ♄☿ 6. ☌ ♂♀ 8	20 Sylver.
11	□ 10	✱ 7				☍ 13.	☽ perig. Td. ☉♄	21
12				☍ 15.42				22 X M. Mar.
13 C. *Pentec.*	✱ 9							23 *F. 4. p. Tri.*
14 Valerius			☍ 10		☍ 5			24 Ioan. Bap
15 Vitus		☌ 7					Bq ☉♃	25
16 Roland						△ 5	SS ♀☿	26
17	☌ 13.			△ 1				27 7dorm.
18			△ 23		△ 9	□ 21		28
19 Gervas.		✱ 17		□ 12.45			SS ♂☿. Td. ♄☿	29 Pet. Paul.
20 C. *Trin.*					□ 16.		Bq ♃☿.	30 *F. 5. p. Tri.*
21			□ 13			✱ 20.		1 Julij
22 10000 M	✱ 8.	□ 4		✱ 5			☽☋ ☽ Apog.	2 Vis. Mar.
23					✱ 2		Vc. ♃☿	3
24 Jo. Bapt.	□ 21	△ 16	✱ 5				△ ♄☿ 15 △ ☉♄ 3	4 Ulric.
25						occid.	☌ ☉☿ 0.	5 Anshelm.
26								6
27 C. 1. *p. Tr.*	△ 10			☌ 16.31	☌ 21		☌ ♀☿ 10. Bq ♄♂	7 F *6. p. Tri.*
28						☌ 0		8 Chilian.
29 Pet. Paul.		☍ 14.	☌ 11		orient		☌ ☉♀ 6	9 Cyrillus
30								10 7 frat.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♓	M. A. I	♒	M. A. O	♌	S D I	♋	♋	M A 5	♋	S A I	♌	M.	♏
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G M	D.	G. M.
1	11	12.29	57	9. 17	52	8 46	11	19.11.22	16,22	6	26. 8	46 D	26 55 ♍	4 45	6. 27
2	12	12.28	57	9. 10	52	9. 24	11	20.8. 31	15.44	16	28.11	46	9. 36	4 18	6. 23
3	13	12.26	57	9. 3	52	10. 2	11	21.5. 41	15. 7	25	♌ 0. 12	45	22.29 ♎	3 39	6. 36
4 ☉	14	12.24	57	8. 56	52	10.39	10	22.2. 51	14.30	35	2. 11	45	5. 34	2 46	7. 4
5	15	12.22	58	8. 48	52	11.17	10	23.0. 1	13.54	44	4. 8	45	18 54 ♏	1 43	7. 43
6	16	12.20	58	8. 41	52	11.55	10	23.57.12	13.18	53	6. 4	44	2. 33	0 33 S	8. 25
7	17	12.18	58	8. 34	52	12.33	10	24.54.24	12.45	59 6	7. 58	41	16.32 ♐	0 40	9. 2
8	18	12.16	58	8. 26	52	13.11	10	25.51.36	12.14	5	9. 50	38	0. 52	1 53	9. [illegible]
9	19	12.13	58	8. 18	52	13.49	10	26.48.49	11.44	10	11.41	34	15 31 ♑	3 0	9. 31
10	20	12.11	59	8. 11	52	14 27	10	27.46.3	11.16	16	13.30	31	0 24	3 56	9. 10
11 ☉	21	12. 9	59	8. 3	52	15. 4	9	28.43.17	10.51	22	15.18	27	15 24 ♒	4 35	8. 28
12	22	12. 6	59	7. 55	52	15.42	9	29.40 32	10.28	24	17. 4	22	0 22	4 56 D	7. 33
13	23	12. 4	59	7. 48	52	16.20	9	♌ 0. 37.47	10. 7	27	18.48	16	15.7	4 55	6. 40
14	24	12. 1	59 -Z-	7. 40	52	16.58	9	1. 35.3	9. 48	29	20.30	10	29.32	4 37	6. 0
15	25	11.58	0	7. 32	52	17.36	9	2. 32.21	9. 31	32	22.10	4	♓ 13.30	4 3	5. 40
16	26	11.55	0	7. 24	52	18.14	9	3. 29.40	9. 16	34	23.46	58	27. 0	3 15	5. 42
17	27	11.52	0	7. 17	52	18.52	8	4. 27. 0	9. 4	33	25.24	51	♈ 10. 2	2 18	6. 1
18 ☉	28	11.49	0	7. 9	52	19.30	[illegible]	5. 24.21	8. 54	33	26.59	43	22.38	1 16	6. 31
19	29	11.45	0	7. 1	53	20. 8	8	6. 21.42	8. 47	33	28 33 ♍	36	♉ 4 54	0 13 M	7. 8
20	30	11.42	1	6. 53	53	20.46	8	7. 19. 4	8. 43	32	0. 5	29	16.54	0 50	7. 44
21	31	11.38	1	6. 45	53	21.23	[illegible]	8. 16.28	8 41 Dir	31	1. 36	21	28.45 ♊	1 50	8. 1
22	Aug. 1	11.35	1	6. 37	53	22. 1	[illegible]	9. 13.53	8. 42	29	3. 5	12	10 33	2 45	8. 3
23	2	11.31	1	6. 30	53	22.39	[illegible]	10.11.19	8. 45	26	4. 32	4 M	22.19 ♋	3 32	8. 4
24	3	11.28	1	6. 22	53	23.17	7	11.8. 46	8. 51	24	5. 57	5	4. 12	4 10	8. 40
25 ☉	4	11.24	2	6. 14	53	23.55	7	12.6. 14	9. 0	21	7. 20	14	16.14	4 40	8. 17
26	5	11.20	2	6. 6	53	24.33	7	13.3. 42	9. 11	18	8. 42	23	28.28	4 56 D	7. 44
27	6	11.16	2	5. 59	53	25.11	7	14.1. 12	9. 24	14	10. 2	33	♌ 10.54	4 58	7. 0
28	7	11.12	2	5. 51	53	95.49	7	14.58.44	9. 38	10	11.20	43	23.32	4 45	6. 13
29	8	11. 8	2	5. 43	53	26.27	7	15.56.17	9. 54	5	12.35	52 I	♍ 6. 22	4 18	5. 31
30	9	11. 4	3	5. 36	53	27. 5	6	16.53.51	10.12	1	13.48	2	19 22 ♎	3 37	5. 1
31	10	11. 0	3	5. 28	53	27.43	6	17.51.26	10.32	-S- 57	14.59	12	2. 32	2 45	4. 45

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Oriēt	♃ Oriēt.	♂ Occid.	☉	♀ Oriēt.	☿ Occid.		
1 Theobal. 2 Visit. Mar.	☍ 5			✱ 21	✱ 11		☍♃♂ 16.	11 Jul. Pius 12
3 4 C. 2. p Tr.		△ 6	✱ 9.		□ 15.	✱ 17		13 Margar. 14 F. 7. p. Tri
5 Anshelm. 6	△ 17	□ 10.	□ 17	□ 7. 45	△ 18	□ 7	(Vc. ♄♂ ☽☊ Bq. ♄♀ (	15 Divis. Ap. 16
7 8 Chilian.	□ 18.	✱ 12	△ 21	△ 15		△ 17	△♄♀ 22 ☍♃☿ 7 ((SS ♂♀. ☽ Perig	17 Alexius 18 Rosina
9 Cyrill. 10 7 Frat.	✱ 19				☍ 17		SS ♀☿ Vc. ♄☿ ☌♂☿ 17.	19 20
11 C 3. p. Tr. 12		☌ 12		☍ 22. 45				21 F. 8. p. Tr. 22 Mar. M.
13 Margar. 14	☌ 21.		☍ 2		△ 17	☍ 7		23 Apollin. 24 Christin.
15 Divis. Ap 16		✱ 19		△ 13	□ 22			25 Jacob. 26 Anna
17 Alexius 18 C. 4 p Tr.			△ 18.			△ 10	Bq. ☉♄.	27 Martha 28 F 9. p. Tri.
19 20	✱ 13.	□ 4 occid.	□ 8	□ 3. 11.	✱ 7		☍☉♃ 14. ☽☋	29 Beatrix 30
21 22 Mar. M.	□ 2	△ 16		✱ 21		□ 6.	SS ☉♀	31 German. 1 August.
23 Apollin. 24 Christin.	△ 14.		✱ 1		☌ 9.	✱ 4	☽ Apog. Vc. ☉♄ Vc. ♃☿	2 3
25 C. 5. p Tri 26 Anna		☍ 14.					✱♀☿ 10.	4 F. 10. p. Tr. 5 Osvvald.
27 Martha 28			☌ 4.	☌ 6. 24.			☍♄☿ 21. Bq. ♃☿	6 Sixtus 7
29 Beatrix. 30	□ 9				✱ 6.	☌ 12.		8 9 Roman.
31 German.		△ 5						10 Laurent

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit.
		♓ G. M.	M. A 2	♒ G. M.	M. A O	♌ G. M.	S D I	♌ G. M. S.	♋ G. M.	M D 5	♍ G. M	M A I	♎ G. M.	M D	♏ G. M.
1	☉11	10.56	3	5. 21	53	28.21	6	18.49. 2	10.54	53	16. 9	22	15.51	1 42	4. 56
2	12	10.52	3	5. 14	53	28.59	6	19.46.39	11. 18	47	17.17	32	29 20	0 33	5. 21
3	13	10.48	3	5. 7	53	29.37	6	20.44.18	11.44	41	18.22	42	♏ 12 59	S. 0 38	5. 58
4	14	10.44	3	5. 0	53	♍ 0. 15	5	21.41.58	12.11	36	19.24	52 Z.	26 51	1 49	6. 41
5	15	10.40	3	4. 53	53	0. 54	5	22.39.40	12.40	30	20.23	3	♐ 10 57	2 54	7. 21
6.	16	10.36	3	4. 46	53	1. 32	5	23.37.24	13.10	24	21.19	13	25.16	3 50	7. 50
7	17	10.32	3	4. 40	53	2. 10	5	24.35. 9	13.42	19	22.12	23	♑ 9. 46	4 31	7. 59
8	☉18	10.28	4	4. 33	53	2. 49	5	25.32.55	14.15	13	23. 3	33	24 23	4 54	7. 4
9	19	10.23	4	4. 27	53	3. 27	4	26.30.43	14.50	7	23.51	43	♒ 8. 59	D 5 0	7.
10	20	10.19	4	4. 21	53	4. 5	4	27.28.32	15.26	2	24.36	53	23.28	4 46	6.
11	21	10.15	4	4. 15	53	4. 43	4	28.26.23	16. 4	4 56	25.17	3 3	♓ 7 41	4 13	5. 2
12	22	10 11	4	4. 9	54	5. 22	4	29.24 16	16.43	49	25.54	11	21.32	3 26	4. 4
13	23	10. 6	4	4. 3	54	6. 0	3	♍ 0. 22.11	17.23	43	26.27	20	♈ 5. 0	2 28	4. 1
14	24	10. 2	4	3. 57	54	6. 38	3	1. 20. 8	18. 4	37	26.55	29	18. 1	1 26	4.
15	☉25	9. 57	4	3. 51	54	7. 17	3	2. 18. 6	18.46	30	27.19	38	♉ 0 39	0 20 M	4. 1
16	26	9. 53	4	3. 46	54	7. 55	3	3. 16. 6	19.29	24	27.38	46	12.57	0 45	4.
17	27	9. 48	4	3. 40	54	8. 33	3	4. 14. 7	20.13	17	27.52	52	25. 0	1 48	5.
18	28	9. 44	4	3. 35	54	9. 11	2	5. 12.10	20.57	11	28. 0	58	♊ 6. 50	2 44	5. 4
19	29	9. 39	4	3. 30	54	9. 50	2	6. 10.14	21.42	5	28. 2 Ret.	4	18 37	3 33	6. 1
20	30	9. 34	5	3. 25	54	10.28	2	7. 8. 20	22.28	3 58	27 58	10	♋ 0 25	4 12	6.
21	31	9. 30	5	3. 20	54	11. 7	2	8. 6. 28	23.15	52	27.48	16	12.20	4 43	7.
22	Sep. ☉1	9. 25	5	3. 16	54	11.45	1	9. 4. 38	24. 3	45	27.32	18	24 24	5 0	7. 1
23	2	9. 20	5	3. 11	54	12.23	1	10.2. 50	24.52	39	27. 9	20 D	♌ 6 43	D 5 4	7.
24	3	9. 15	5	3. 7	54	13. 2	1	11.1. 3	25.42	32	26.40	20	19.19	4 53	6.
25	4	9. 10	5	3. 3	54 D	13.40	1	11.59.18	26.32	26	26. 4	18	♍ 2. 11	4 28	5.
26	5	9. 5	5	2. 59	54	14.18	0	12.57.36	27.23	19	25.22	16	15.19	3 48	5.
27	6	9. 0	5	2. 56	54	14.57	0	13.55.56	28.15	13	24.35	7	28 42	2 55	4. 1
28	7	8. 56	5	2. 52	54	15.35	0	14.54 17	29. 8	6	23.42	3 57	♎ 12 17	1 51	3.
29	☉8	8. 51	5	2. 49	54	16.14	0	15.52.40	♌ 0 2	Z 59	22.44	48	26 0	0 39	3. 1
30	9	8. 46	5	2. 46	54	16.52	0	16.51. 5	0. 56	53	21.44	38	♏ 9 49	S 0 35	3. 1
[illegible]	10	8. 41	5	2. 43	54	17.31	0 59	17.49.32	1. 51	47	20.42	29	23.44	1 48	3.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Occid.	♂ occid.	☉	♀ Oriēt.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 C.6.p.Tr. 2	△ 20	□ 10	✶ 23.	✶ 6	△ 22		△ ♄♀ 2 ☽ ☊	11 F. 11. p. Tri 12 Clara
3 4 Aristarch.	□ 23.	✶ 14	□ 6	□ 14·25		✶ 10		13 Hippol. 14 Euseb.
5 Osvvald. 6 Sixtus			△ 11	△ 21		□ 17	☿ distant. Max. ☽ Perig. (à ☉	15 Ass. M. 16 Rochus
7 8 C.7.p Tr	✶ 1	☌ 16.			☍ 7	△ 21.		17 18 F. 12. p. Tr.
9 10 Laurent.			☍ 19	☍ 7.16			Vc. ♃♂	19 Sebald. 20
11 12 Clara	☌ 13	✶ 22			△ 15	☍ 8		21 22
13 Hippolit 14 Euseb.					□ 0			23 Zachæ. 24 Barthol.
15 C.8 p.Tr. 16 Rochus	✶ 18	□ 6	△ 13.	△ 3.	✶ 14		☽☋ Vc. ☉♃	25 F. 13. p. Tr. 26
17 18 Helena	□ 6	△ 17.	□ 5	□ 20·24		△ 6	☍♄♂ 18. Bq♃♂	27 Gebhar. 28 August.
19 Sebald. 20	△ 18.		✶ 21.	✶ 15		□ 19	☽ Apog.	29 Decol. Io. 30
21 22 C.9.p.Tr		☍ 17			☌ 23	✶ 6	☍☉♄ 7. Bq ☉♃	31 Paulin. 1 F Septem.
23 Zachæus 24 Barthol.							✶♀☿ 16	2 Veronic 3
25 Ludovic. 26	☍ 13		☌ 22	☌ 19·19	✶ 23	☌ 17		4 Theodos. 5
27 Gebhar. 28 August.		△ 18						6 Magnus 7 Regina
29 C.10.p.Tr. 30	△ 22	□ 12	✶ 13	✶ 13	□ 7.	✶ 19	☽☊ ☌☉♂ 1	8 F. 15. p. Tr. 9 Gorgon.
31 Paulin.		✶ 15	orien.		△ 15		☍♃♀ 21. Bq♄♀	10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	La.	☽ Longit.	Latit	Longit
		♓	M A Z	♒	M D O	♍	S D O	♍	♌	M D Z	♍	M D 3	♐	S A	♏
		G. M		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M		G. M
1	11	8. 36	5	2. 40	54	18. 9	59	18.48. 2	2. 46	40	19.40	20	7. 43	2 55	4. 15
2	12	8. 31	5	2. 37	54	18.48	59	19.46.33	3. 42	34	18.39	1	21.46	3 51	4. 57
3	13	8. 27	5	2. 34	54	19.27	58	20.45. 6	4. 38	28	17.39	-Z- 42	♑ 5 52	4 34	5. 39
4	14	8. 22	5	2. 32	54	20. 5	58	21.43.42	5. 35	22	16.40	23	20. 1	5 1	6. 11
5 ☾	15	8. 18	5	2. 29	54	20.44	58	22.42.19	6. 32	17	15.47	4	♒ 4. 12	D 5 9	6. 26
6	16	8. 13	5	2. 27	54	21.23	58	23.40.59	7. 30	11	15. 2	1 46	18 20	4 58	6. 19
7	17	8. 9	5	2. 25	54	22. 2	57	24.39.41	8. 28	5	14.26	25	♓ 2 21	4 29	5. 5[illegible]
8	18	8. 4	5	2. 23	54	22.40	57	25.38.25	9. 27	1 59	13.57	4 O.	16.11	3 46	5. 7
9	19	8. 0	5	2. 21	53	23.19	57	26.37.10	10.26	53	13.35	44	29 45	2 50	4. 17
10	20	7. 56	5	2. 20	53	23.58	56	27.35.57	11.26	47	13.21	23	♈ 13 0	1 40	3. 29
11	21	7. 51	5	2. 18	53	24.37	56	28.34.46	12.26	41	13.20	2	25 55	0 37	2. 5[illegible]
12 ☉	22	7. 47	5	2. 17	53	25.16	56	29. 33.38	13.26	35	D.. 13.29	11	♉ 8. 30	M 0 31	2. 34
13	23	7. 43	5	2. 16	53	25.55	55	♎ 0. 32. 53	14.27	29	13.47	24	20 48	1 37	2. 31
14	24	7. 39	5	2. 15	53	26.33	55	1. 31.30	15.28	23	14.15	37	♊ 5. 51	2 36	2. 44
15	25	7. 35	5	2. 15	53	27.12	55	2. 30.29	16.30	17	14.53	50	14.45	3 30	3. [illegible]
16	26	7. 31	5	2. 14	53	27.51	55	3. 29.31	17.32	11	15.42	1 3	26.33	4 13	3. 4[illegible]
17	27	7. 27	5	2. 14	53	28.30	54	4. 28.34	18.34	5	16.39	11	♋ 8. 21	4 45	4. 17
18	28	7. 24	5	2. 14	53	29. 9	54	5. 27.39	19.37	0 58	17.43	20	20 15	5 6	4. 50
19 ☉	29	7. 20	4	Dir. 2. 14	53	29 48	54	6. 26.45	20.40	52	18.53	28	♌ 2. 20	5 13	5. 18
20	30	7. 16	4	2. 14	53	♎ 0 27	53	7. 25.53	21.44	46	20.10	37	14 41	D 5 7	5. 34
	Oct.														
21	1	7. 13	4	2. 15	53	1. 5	53	8. 25. 2	22.48	40	21.33	45	27.20	4 45	5. 35
22	2	7. 9	4	2. 16	53	1. 44	53	9. 24.14	23.52	35	23. 0	48	♍ 10 20	4 8	5. 15
23	3	7. 6	4	2. 17	53	2. 23	52	10 23.30	24.56	30	24.30	50	23 41	3 18	4. 44
24	4	7. 3	4	2. 19	53	3. 2	52	11.22.50	26. 0	25	26. 3	52	♎ 7. 22	2 15	3. 56
25	5	7. 0	4	2. 20	53	3. 41	52	12.22.12	27. 5	20	27.38	55	21.20	1 1	3. 4
26 ☉	6	6. 57	4	2. 22	53	4. 20	52	13.21.36	28.10	15	29 16	57	♏ 5. 29	S 0 16	2. 18
27	7	6. 54	4	2. 24	53	4. 59	51	14.21. 3	29 15	10	♎ 0. 55	55	19 47	1 33	1. 5[illegible]
28	8	6. 51	4	2. 26	53	5. 38	51	15.20.31	♍ 0 .21	5	2. 35	53	♐ 4 8	2 45	1. 4[illegible]
29	9	6. 48	4	2. 28	53	6. 17	51	16.20. 2	1. 27	0	4. 16	51	18 29	3 48	1. [illegible]
30	10	6. 45	4	2. 31	52	6. 56	50	17.19.34	2. 33	5	5. 58	49	♑ 2. 44	4 34	2. [illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Occid.	♂ Oriét.	☉	♀ Oriét.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Ægid.	□ 1.		□ 19	□ 20.20		□ 19	☌☉☿ 10.	11 Septemb.
2 Veronic.						orien.	☽ Perig.	12
3	✶ 4					△ 19		13
4 Theodoſ.		☌ 21	△ 0	△ 3				14 Exalt. ✠
5 *C. 11. p. Tr.*					☍ 4			15 *F. 16 Nic.*
6 Magnus							Vc. ♄♀	16 Euphem.
7 Regina	☌ 10					☍ 20	♀ longiſſimè	17 Lampert.
8 Nat Mar.			☍ 12	☍ 18.2			diſtat à ☉	18
9 Gorgon.		✶ 5			△ 21			19
10								20 Fauſta
11	✶ 22.	□ 12					☽ ☋	21 Matthæ.
12 *C. 12. p. Tr.*					□ 10.	△ 10	SS ♀☿	22 *F. 17 p. Tr.*
13		△ 23	△ 11	△ 21				23 Eſdra
14 Exalt. Cr.	□ 9.						△☉♃ 18.	24 Samuel
15 Nicodem.					✶ 4.	□ 0	☽ Apog.	25
16 Euphem.	△ 22		□ 3	□ 15.26				26 Cyprian.
17 Lampert.						✶ 18.	☿ Elong. Max.	27 Coſm. D.
18			✶ 19					28 Wenceſl.
19 *C. 13 p. Tr.*		☍ 0.		✶ 9			Vc. ☉♄	29 *F. 18.* Mic.
20 Fauſta					☌ 14			30 Hieron.
21 Matthæ.	☍ 18							1 Octob.
22 Mauric.							△♃♂ 20	2 Leodegar.
23 Eſdra		△ 15	☌ 16			☌ 1.	SS ♀☿	3
24 Samuel				☌ 7.25				4 Franciſc.
25		□ 19			✶ 10		☽ ☊ Bq ☉♄.	5
26 *C. 14 p. Tr.*	△ 2.							6 *F. 20. p. Tr.*
27 Coſm. D.		✶ 21			□ 17	✶ 21.	△♃☿ 22. (Td.	7 Hora 4.30 [illegible]
28 VVences.	□ 4.		✶ 2.	✶ 20			(☉♃. (Vc. ♄♂	8
29 Michael					△ 23.		☽ perig. Vc. ♃♀	9 Dionyſ.
30 Hieron.	✶ 7		□ 7.			□ 6	☌♂☿ 21. Vc. ♄☿	10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M.	Lat M D Z	♃ Longit. ♒ G. M.	Lat M D O	♂ Longit ♎ G. M.	Lat S D O	☉ Longitudo. ♎ G. M. S	♀ Longit. ♍ G. M.	Lat S A O	☿ Longit. ♎ G. M.	La. S D I	☽ Longit. ♑ G. M.	Latit S A	☊ Longit ♏ G. M.
1	11	6. 42	4	2. 33	52	7. 35	50	18.19. 8	3. 40	10	7. 42	46	16 52	5 4	3. 13
2	12	6. 39	4	2. 36	52	8. 15	50	19.18.43	4. 47	14	9. 26	42	♒ 0 53	5 16 D	3. 55
3 ☉	13	6. 37	4	2. 39	52	8. 54	49	20.18.19	5. 54	18	11.10	38	14.44	5 9	4. 30
4	14	6. 34	4	2. 42	52	9. 34	49	21.17.58	7. 1	22	12.53	33	28.27	4 45	4. 50
5	15	6. 32	4	2. 45	52	10.13	48	22.17.39	8. 8	27	14.36	29	♓ 12. 0	4 4	4. 51
6	16	6. 29	4	2. 49	52	10.53	48	23.17.23	9. 16	31	16.19	24	25.22	3 11	4. 32
7	17	6. 27	3	2. 52	52	11.33	48	24.17. 9	10.24	35	18. 2	19	♈ 8. 31	2 9	3. 56
8	18	6. 24	3	2. 56	52	12.12	47	25.16.57	11.32	39	19.45	13	21.27	1 2 M	3. 11
9	19	6. 22	3	3. 0	52	12.52	47	26.16.47	12 40	43	21.27	7 1 .O.	♉ 4. 8	0 8	2. 23
10 ☾	20	6. 20	3	3. 4	52	13.32	46	27.16.39	13.48	47	23. 9		16.34	1 17	1. 41
11	21	6. 18	3	3. 9	52	14.11	46	28.16.35	14.56	51	24.51	55	28 47	2 19	1. 12
12	22	6. 16	3	3. 13	52	14.51	46	29.16.33	16. 5	55	26.32	49	♊ 10.50	3 16	0. 57
13	23	6. 14	3	3. 18	52	15.31	45	♏ 0. 16.32	17.14	58 1	28.13	42	22 44	4 4	0. 58
14	24	6. 12	3	3. 23	52	16.11	45	1. 16.34	18.23	2	29.53	36	♋ 4 33	4 41	1. 13
15	25	6. 11	3	3. 28	51	16.50	44	2. 16.37	19.32	5	♏ 1. 32	29	16.24	5 4	1. 39
16	26	6. 9	3	3. 33	51	17.30	44	3. 16.43	20.41	8	3. 11	23	28.18	5 16 D	2. 12
17 ☉	27	6. 8	2	3. 39	51	18.10	43	4. 16.52	21.50	12	4. 49	16	♌ 10 21	5 14	2. 4
18	28	6. 6	2	3. 44	51	18.50	43	5. 17. 2	23. 0	15	6. 27	10	22 39	4 59	3. 2
19	29	6. 5	2	3. 50	51	19.29	42	6. 17.14	24. 9	18	8. 5	3 M	♍ 5. 16	4 27	3. 4
20	30	6. 4	2	3. 56	51	20. 9	42	7. 17.27	25.19	22	9. 42	4	18.16	3 42	4.
21	31	6. 3	2	4. 2	51	20.49	42	8. 17.41	26.29	25	11.19	10	♎ 1. 40	2 43	3. 5
22	Nov 1	6. 2	2	4. 8	51	21.29	41	9. 17.57	27.39	27	12.55	17	15 28	1 34	3. 3
23	2	6. 2	2	4. 15	51	22. 8	41	10.18.16	28.49	29	14.31	24	29 40	0 17 S	2. 4
24 ☾	3	6. 1	2	4. 21	51	22.48	40	11.18.38	29 59	31	16. 6	31	♏ 14 10	1 3	1.
25	4	6. 0	2	4. 28	51	23.28	40	12.19. 2	♎ 1. 10	33	17.41	37	28 54	2 20	1.
26	5	6. 0	2	4. 35	51	24. 8	40	13.19.28	2. 20	35	19.16	44	♐ 13 43	3 27	0.
27	6	5. 59	1	4. 42	51	24.47	39	14.19.55	3. 31	37	20.50	50	28 31	4 22	0.
28	7	5. 59	1	4. 49	51	25.27	39	15.20.24	4. 42	39	22.24	56 1	♑ 13.10	4 58	0.
29	8	5. 59 Dir.	1	4. 56	51	26. 7	39	16.20.54	5. 53	41	23.58	2	27.34	5 14 D	0.
30	9	5. 59	1	5. 4	51	26.47	38	17.21.26	7. 4	43	25.31	7	♒ 11.39	5 12	1. 2
31 ☽	10	5. 59	1	5. 11	50	27.26	38	18.22. 0	8. 15	45	27. 4	13	25.27	4 52	2.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid.	♃ Occid.	♂ Orien.	☉	♀ Orien.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Ren ig.				□2.40				11 Octobr.
2 Leodega.		☌3	△13			△17		12 Colman.
3 *C.15.p.Tr.*				△10.			☍♄♀15 Bq ♄☿	13 *F.20.p.Tr.*
4 Francisc.	☌14.				☍16.			14 Calixtus
5							Td ♃☿. Bq♃♀	15 Hedvvig
6 Fides		✱13.						16 Gallus
7			☍6			☍20.		17
8		□22		☍7.54			☽☋.Bq♄♂Ecl)	18 Lucas
9 Dionys.	✱4				△18		SS ♂♀. (☽	19 Ptolom.
10 *C.16.p.Tr.*								20 *F.21.p.Tr.*
11 Burchard.	□15	△9						21 Ursula
12 Coloma.			△8.		□12		☽Apog Td.♃♂	22 Cordul.
13				△17		△13		23 Severin.
14 Calixtus	△3.							24 Salome
15 Hedvvig			□1		✱7		(☌☉☿4	25 Crispin.
16 Gallus		☍10.		□10.50		□11	□☉♃7 □♃☿6.(	26 Amand.
17 *C.17.p Tr*			✱16			Occid.	△♄☿14.	27 *F.22.p Tr*
18 Lucas							△☉♄ 19	28 Sim. Jud.
19 Ptolom.	☌1.			✱2		✱6		29
20					☌14			30
21 Ursula		△4						31 Wolffg.
22 Cordula			☌10.					1 Nov O.S.
23 Severin	△10.	□7.		☌18.53			☽ ☊ Eclips. ☉	2 Anim.
24 *C.18.p.Tr.*						☌3.		3 *F.23.p Trin.*
25 Crispin.	□11.	✱9			✱4		Td♄☿	4
26 Amand.			✱17.				☽ Perig.	5
27	✱12				□9			6 Leonhar.
28 Sim. Jud.			□21.	✱4		✱17	△♃♀2. Q ♃☿	7 Florent.
29		☌13			△15.		Vc. ♄♀	8
30				□10.42			Td. ☉♄	9 Theod.
31 *C.19.p Tr.*	☌19		△4			□3	SS ♂☿	10 *F.24 p Tr.*

20454.

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M.	♄ Lat. M. D Z	♃ Longit. ♒ G. M.	♃ Lat. M. D O	♂ Longit. ♎ G. M.	♂ Lat. S D O	☉ Longitudo ♏ G. M. S.	♀ Longit. ♎ G. M.	♀ Lat. S A I	☿ Longit. ♏ G. M	☿ Lat. M A I	☽ Longit. ♓ G M	☽ Latit. S D	☊ Longit. ♏ G. M.
1	11	5. 59	1	5. 19	50	28. 6	38	19.22.35	9. 27	47	28.37	19	8. 56	4 14	2. 44
2	12	6. 0	1	5. 27	50	28.46	37	20.23.12	10.39	48	♐ 0. 10	24	22 9	3 25	3. 10
3	13	6. 0	0	5. 35	50	29 26	37	21.23.51	11.51	49	1. 42	29	♈ 5. 8	2 26	3. 19
4	14	6. 1	0	5. 44	50	♏ 0. 7	36	22.24.33	13. 3	50	3. 14	34	17.54	1 21	3. 10
5	15	6. 1	0	5. 52	50	0. 47	36	23.25.16	14.15	51	4. 45	39	♉ 0. 57	0 13 M	2. 4[illegible]
6	16	6. 2	0	6. 1	50	1. 28	35	24.26. 1	15.27	52	6 .16	44	12.50	0 56	2. [illegible]
7	☉17	6. 3	0	6. 10	50	2. 8	35	25.26.47	16.39	53	7. 47	49	25. 4	1 59	1. 2[illegible]
8	18	6. 4	0	6. 19	50	2. 49	34	26.27.34	17.51	54	9. 18	53	♊ 7. 10	2 57	0. 3[illegible]
9	19	6. 5	I 59	6. 28	50	3. 29	34	27.28.22	19. 3	55	10.49	57 Z	19. 9	3 47	0 0
10	20	6. 6	59	6. 38	50	4. 10	33	28.29.12	20.15	57	12.19	I	♋ 1 3	4 26	♎ 29 33
11	21	6. 8	59	6. 47	50	4. 50	33	29.30. 4	21.28	58	13.49	5	12.5[illegible]	4 54	29.22
12	22	6. 9	59	6. 57	50	5. 31	32	♐ 0 30 57	22.40	58	15.19	8	24 47	5 9	29.2[illegible]
13	23	6. 11	59	7. 6	50	6. 11	32	1. 31.52	23.52	58	16.49	10	♌ 6. 42	D 5 12	29 42
14	☉24	6. 12	59	7. 16	50	6. 52	31	2. 32.49	25. 4	58	18.18	13	18 45	5 0	♏ 0. 10
15	25	6. 14	58	7. 26	50	7. 32	31	3. 33.47	26.17	58	19.46	15	♍ 1. 1	4 35	0. 4[illegible]
16	26	6. 16	58	7. 36	50	8. 13	30	4. 34.46	27.30	59	21.14	18	13.33	3 55	1. 23
17	27	6. 18	58	7. 46	50	8. 53	30	5. 35 45	28.43	59	22.41	19	26 26	3 3	1. 5[illegible]
18	28	6. 20	58	7 .56	50	9. 34	29	6. 36.45	29 56	59	24. 7	20	♎ 9. 44	2 1	2. 22
19	29	6. 22	58	8. 7	50	10.15	29	7. 37.47	♏ 1. 9	D 59	25.32	21	23.30	0 49	2. 2[illegible]
20	30	6. 24	58	8 .17	50	10.55	28	8. 38.51	2. 22	59	26.56	21	♏ 7. 42	S 0 28	2. 14
21	Dec. ☉1	6. 27	57	8. 28	50	11.36	28	9. 39.57	3. 35	59	28.19	D 21	22.19	1 46	1. 3[illegible]
22	2	6. 29	57	8. 38	50	12.17	27	10.41. 4	4. 48	58	29 41	19	♐ 7 15	2 57	0 4[illegible]
23	3	6. 31	57	8. 49	50	12.57	27	11.42.11	6. 1	58	♑ 1. 1	17	22.23	3 57	♎ 29 [illegible]
24	4	6. 34	57	8. 59	49	13.38	26	12.43.19	7. 14	57	2. 20	14	♑ 7 34	4 40	29. [illegible]
25	5	6. 36	57	9. 10	49	14.19	26	13.44.28	8. 27	57	3. 38	12	22.36	5 4	28.[illegible]
26	6	6. 39	57	9. 21	49	15. 0	25	14.45.38	9. 41	56	4. 54	10	♒ 7 21	D 5 7	28 [illegible]
27	7	6. 42	56	9. 32	49	15.40	25	15.46.49	10.54	55	6. 7	4	21 42	4 50	28 [illegible]
28	☉8	6. 45	56	9. 43	49	16.21	24	16.48. 0	12. 7	54	7. 17	I 57	♓ 5. 37	4 17	29 [illegible]
29	9	6. 48	56	9. 55	49	17. 2	24	17.49.11	13.21	53	8. 22	51	19. 7	3 30	♏ 0. 1[illegible]
30	10	6. 51	56	10. 6	49	17.43	23	18.50.23	14.35	52	9. 23	45	♈ 2. 13	2 33	0. [illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid.	♃ Occid.	♂ Orien.	☉	♀ Orien.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Omn.S.				△20.				11 Nov.Mar.
2 Animar.						△17		12
3 Theophil.		✱ 1.			☍ 13		Bq ♄♀	13
4							(19. ☽☋ Q☉♃	14 Frider.
5	✱ 11	□ 10.	☍ 1.				□♄☿ 20 ✱ ♃☿(	15 Leopold.
6 Leonh.							SS ♄♃.	16
7 *C. 20. p. Tr.*	□ 22	△22		☍ 0. 50				17 *F. 25. p. Tr.*
8						☍ 5	Td ♃♀	18 Gelasius
9 Theodor.					△ 0		☽ Apog.	19 Elisabeth
10	△ 10		△ 7					20
11 Martin.					□ 19			21 Præs. M.
12			□ 23	△12.				22 Cæcilia
13		☍ 1				△ 23	△♄♂ 0	23 Clemens
14 *C. 21. p. Tr.*					✱ 14		□♃♂ 19	24 *F. 26. p. Tr.*
15 Leopold.	☍ 10		✱ 13	□ 5. 19				25 Cathar.
16						□ 16		26 Conrad.
17		△21		✱ 18			□☉♄ 17	27
18 Gelasius							Q ♄☿.	28
19 Elisabeth	△ 5				☌ 14	✱ 4	✱☉♃ 13. ☽ ☊	29 Saturn.
20		□ 1	☌ 5.					30 Andreas
21 *C. 22. p. Tr.*	□ 23							1 *F. 1. Adv.*
22 Cæcilia		✱ 2		☌ 5. 50				2 Candidus
23 Clemens	✱ 22.				✱ 23.	☌ 15	△♄♀ 10 ☽ Perig.	3
24			✱ 10					4 Barbara
25 Cathar.							□♃♀ 16.	5
26 Conrad.		☌ 3.	□ 13.	✱ 13.	□ 4		SS ☉♂	6 Nicolaus
27							✱♄☿ 12.	7
28 *C. 1. Adv.*	☌ 2		△ 20	□ 21. 30	△ 13	✱ 3		8 *F. 2. Ad.*
29 Saturn.							☿ Digress. Max.	9 Joachim.
30 Andreas		✱ 15				□ 14	SS ♃☿	10

DECEMBRIS. Motus Planetarum. Anno 1641.

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M	Lat M D I	♃ Longit ♒ G. M.	Lat M D O	♂ Longit. ♏ G. M.	Lat S D O	☉ Longitudo. ♐ G. M. S	♀ Longit. ♏ G. M.	Lat S D I	☿ Longit. ♑ G. M.	La. M D I	☽ Longit. ♈ G. M.	Latit S D G. M	☊ Longit. ♏ G. M.
1	11	6. 54	56	10.18	49	18.23	23	19.51.36	15.48	52	10.20	39	15. 0	1 29	1. 24
2	12	6. 58	56	10.30	49	19. 4	22	20.52.50	17. 2	50	11.11	27	27 30	0 23	1. 42
3	13	7. 1	55	10.42	49	19.45	21	21.54. 6	18.16	49	11.56	15	♉ 9. 48	M 0 43	1. 44
4	14	7. 4	55	10.54	49	20.26	21	22.55.22	19.30	47	12.33	4	21.57	1 45	1. 30
5 ☉	15	7. 8	55	11. 6	49	21. 7	20	23.56.39	20.43	45	13. 4	O 52	♊ 3 58	2 42	1. 2
6	16	7. 12	55	11.18	49	21.48	19	24.57.56	21.57	44	13.28	40	15.56	3 33	0. 22
7	17	7. 16	55	11.30	49	22.29	19	25.59.13	23.11	42	13.43	24	27.51	4 14	♎ 29 3[illegible]
8	18	7. 20	55	11.43	49	23.10	18	27.0. 30	24.25	41	13.47	7	♋ 9. 45	4 42	28.5[illegible]
9	19	7. 24	55	11.55	49	23.51	17	28.1. 47	25.39	39	ret. 13 40	10	21 39	5 0	28.1[illegible]
10	20	7. 28	55	12. 7	49	24.33	17	29.3. 5	26.53	38	13.21	26	♌ 3. 36	D 5 3	27.5[illegible]
11	2[illegible]	7. 32	54	12.20	49	25.14	16	♑ 0. 4. 24	28. 7	36	12.46	43 I	15.36	1 53	27.4[illegible]
12	2[illegible]2	7. 36	54	12.33	49	25.55	15	1. 5. 43	29.21	34	11.57	3	27 43	4 31	27.5[illegible]
13	23	7. 41	54	12.45	49	26.36	14	2. 7. 2	♐ 0. 35	32	10.52	2[illegible]	♍ 10 0	3 55	28.1[illegible]
14	24	7. 45	54	12.58	49	27.18	14	3. 8. 21	1. 49	30	9. 35	42	22 30	3 8	28.4[illegible]
15	25	7. 49	54	13.11	49	27.59	13	4. 9. 41	3. 4	28	8. 11	2	♎ 5 17	2 10	29.2[illegible]
16	26	7. 54	54	13.24	49	28.40	12	5. 11. 2	4. 18	26	6. 51	22	18 27	0. 50	♏ [illegible]
17	27	7. 59	54	13.36	49	29 22	12	6. 12.23	5. 32	24	5. 33	32	♏ 2 1	S 0 7	0. 3[illegible]
18	28	8. 3	54	13.49	49	♐ 0. 3	11	7. 13.43	6. 47	21	4. 16	43	16. 3	1 21	0. [illegible]
19 ☉	29	8. 8	54	14. 2	49	0. 45	10	8. 15. 3	8. 1	19	3. 1	54 3	♐ 0. 32	2 31	0. [illegible]
20	30	8. 13	53	14.15	49	1. 27	10	9. 16.22	9. 16	17	1. 47	5	15 25	3 34	0. [illegible]
21	31	8. 18	53	14.28	49	2. 8	9	10.17.41	10.31	15	0. 34	15	♑ 0. 36	4 21	29 [illegible]
22	Ian. 1	8. 23	53	14.42	49	2. 50	8	11.19. 0	11.46	13	♐ 29.33	17	15.53	4 51	28.[illegible]
23	2	8. 28	53	14.55	49	3. 32	7	12.20.19	13. 0	10	28.43	D 15	♒ 1. 7	D 4 59	27.[illegible]
24	3	8. 33	53	15. 8	49	4. 13	7	13.21.38	14.15	8	28. 5	12	16. 7	4 48	27.14
25	4	8. 39	53	15.21	49	4. 55	6	14.22.56	15.30	5	27.39	9	♓ 0. 43	4 17	27.[illegible]
26 ☉	5	8. 44	53	15.35	49	5. 37	6	15.24.14	16.44	3	27.23	4	14.50	3 31	2[illegible]
27	6	8. 49	53	15.48	49	6. 19	5	16.25.32	17.59	0	27.15	Z 56	28 29	2 35	2[illegible]
28	7	8. 55	52	16. 1	49	7. 1	5	17.26.49	19.14	57	27 14	48	♈ 11 39	1 31	28.[illegible]
29	8	9. 0	52	16.15	49	7. 43	4	18.28. 6	20.29	55	27.22	41	24 25	0 25	28[illegible]
30	9	9. 6	52	16.28	49	8. 25	4	19.29.23	21.44	52	27.3[illegible]	33	♉ 6 50	0. 40	29[illegible]
31	10	9. 11	52	16.42	49	9. 7	3	20.30 40	22.59	50	28. 2	25	19. 11	1 42	29.[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ Occi.	♂ Oriét.	☉	♀ Oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Longin.				△10			Td ♄♂	11 Decemb.
2 Candidus	✶ 8.						☽☋	12 Epimach.
3 Cassianus		□ 2	☍20		☍18.	△4.	Td ♄♀	13 Lucia
4 Barbara								14 Nicas.
5 C 2. *Adv.*	□ 6.	△ 14.					☌♂♀17.	15 *F. 3. Advent*
6 Nicolaus				☍ 9.53			Q☉♄.	16
7	△ 9						☽ Apog.	17 Lazarus
8 Conc. M.						☍8		18 Christoph.
9 Joachim.			△ 5		△ 9			19
10		☍ 7						20
11			□ 20				SS ♃☿	21 Thomas
12 C 3. *Ad*	☍19.			△ 7	□ 3.			22 *E. 4. Adv.*
13 Lucia						△1.	Q♃☿.	23
14 Nicasius			✶9.	[illegible]1.42	✶19.			24 Adv Ev.
15		△14.				□ 5	✶♄☿6.	25 Nat. D.
16						orien	☌☉☿17 ☽☊	26 Stephan.
17 Lazarus	△10	□20		✶8		✶5.	SS ♀☿	27 Joan Ev.
18 Christop.							✶☉♄21	28 Innocent.
19 C. 4. *Adv.*	□12	✶22	☌0		☌13		□♄♀2.	29 *F.*
20							SS♂☿ SS☉♀0	30 David
21 Thomas	✶ 12			☌16.10		☌0	☽ Perig.	31 Sylvester
22 Theodos.								1 Ja. A. 1642.
23		☌ 22.	✶ 4		✶21			2
24 Adam F.						✶19	✶♃♀20	3
25 Nat D.	☌13.		□7.					4 Telesph.
26 C. Steph.				✶1	□ 3.	□22	SS☉♃	5 *E.* Sim.
27 Joan. Ev			△15					6 Epiphan.
28 Infant.		✶8.		□ 11.51	△16			7 Julian.
29						△6	☽☋	8 Erhard.
30 David	✶4.	□ 19.						9
31 Sylvester				△ 3			□♄♂9.	10 Paul. Ere.

IV. ECLIPSIS SOLIS.

Media ☌ ☉ ☽ fit d. 24 Octobr. hora 3. min. 2. sec. 56 ante merid. Intervallum mediæ & veræ ☌ add. est 3 hor. 50/ 24//. Tempus medium veræ ☌ hora 6 53/20//. Tempus vero apparens hora 7. 3/6// Quo tempore invenitur Anomalia ☉ 2 Sex. 6 gr 19/50//. Anomalia ☽ coæquata 2 Sex. 10 gr. 42/37//. Longitudo Luminarium in 11 gr. 5/44// ♏. Argum. Latit. ☽ 0 Sexag. 9 gr. 3/10// Latit. ☽ Sept 46/58//. Hæc ☌ Luminarium in meridiano Uraniburgico Ecliptica esse nequit: siquidem ☉ nondum illo tempore visæ ☌ ortus est. Etenim oritur hoc die in Huena Insula 7 hor. 3'. Quamobrem alia loca quærenda sunt, qualia reperiuntur quæ subjacent Longitudini terræ 128 gr. 8/ & Latitudini Septentr. 34 gr. Illic enim accidit visibilis ☌ ☉ ☽ in 90 Eclipticæ gradu, 1 hor 8/40//. post meridiem; Videbitur igitur ab illis qui in Orientali Bargala regno, in superioris Indiæ intra Gangem regnis, & in Dipo Indiæ civitate non procul à China lacu, habitant, ubi Mena, Martabon & Dolm fluvii sese jungunt, quiq; incolunt Damasi opidum in India intra Gangem ad Rubay lacum, in Litvania, Dalmatia, Bulgaria, Thracia, in Astracan Tartariæ, Moldavia, Podolia, finem huius Eclipsis videbunt: In Arabia verò, Ægypto, Persia, Syria, Parthia ab initio ad finem usq; videbitur. Quandoquidem sub determinata à nobis Longitudine & Latitudine locorum invenitur Altitudo ☉ ad tempus visæ ☌ 40 gr 48/ Parallaxis ☾ 2/16// Parallaxis Latitudinis ☽ à ☉ 46/51// Unde Latitudo ☽ visa Septentr. relinquitur 0/7// digitiq; Ecliptici emergunt 12.33/12//. Ita ut totalis in hisce regionibus futura sit. Semidiameter ☽ datur 16 S 55// Semidiam. ☉ 15 S 23//. Aggregatum SSdd. 32. S 18//. Pars deficiens 32/11. Tempus Incidentiæ 1. hor. 51/4//. Ut tota duratio sit 3 hor. 42/8//. Et tantùm de Eclipsibus huius anni.

Radices mediorum motuum Planetarum ad Meridianum Uraniburgicum, & ad meridiem Calendar. Ianuar. Iuliani Anni æræ Christianæ 1641. spectantes, ex Tabb. Rudolphinis Keppleri, observationibus Nobil. Tychonis innitentibus, excerptæ.

	S	°	/	//
Præcessio Æquinoctiorum à prima ♈ stella	0	18	11	0
Longitudo media ☉ ab Æquinoctio verno	9	21	13	31
Apogæum Solis	3	6	25	14
Longitudo media ☽	9	17	20	18
Apogæum Lunæ	1	27	24	27
Nodus Boreus Lunæ	11	5	30	51
Longitudo media ♄	11	7	50	25
Aphelium Saturni	8	26	48	3
Nodus Boreus Saturni	3	21	47	37
Longitudo media ♃	9	25	35	56
Aphelium Iovis	6	7	23	28
Nodus Boreus Iovis	3	5	28	20
Longitudo media ♂	1	13	54	50
Aphelium Martis	4	29	44	32
Nodus Boreus Martis	1	17	11	3
Motus medius ♀	0	0	8	31
Aphelion Veneris	10	1	6	23
Nodus Boreus Veneris	2	13	22	14
Motus medius ☿	3	6	32	43
Aphelium Mercurij	8	13	59	41
Nodus Boreus Mercurij.	1	15	22	12

Nota de novo Aspectu Quincunce prioribus superaddito.

Cum jam aliquoties, Lector amice, efficaciam Quincuncis, qui intervallum quinq; integrorum signorum seu 150 grad. complectitur, in movenda aura sublunari deprehenderim & Kepleri observationes idem velint, idcirco & eum in hisce Ephemeridibus notare voluimus. Tu influxum eius mecum attende.

Quincunx autem ita à me signatur: Vc, ad differentiam Quintilis Aspectus. Addidi insuper loco Apogei & Perigæi Planetarum in suo Orbe Epicyclico & Eccentrico maximas inferiorum ♀ & ☿ à Sole digressiones, ut rerum cœlestium curiosus horum Planetarum motus observare possit, quemadmodum etiam in Ephemeridibus Kepleri longissimæ eorum à Sole distantiæ (eandem haut dubiè ob causam) ad præcedentes annos consignatæ sunt.

FINIS Ephemeridis ad Annum Christi 1641.

EPHEMERIS
MOTUUM COELESTIUM
ad annum æræ Chriſtianæ M. DC. XLII.

Annus hic eſt ſecundus à Biſextili, cujus Character eſt Periodus Scaligerana 6355.

Numerantur

A Condito Mundo ſecundum Sethi Calviſij ſupputationem. Anni	5591	Ab obitu Alexandri Magni.	1965.
A Diluvio.	3935.	Ab anno Juliano.	1686.
Ab Exitu Iſraelitarum ex Ægypto.	3139.	A paſſione & morte Chriſti.	1609.
Ab anno Nabonazaræo.	2390.	Ab anno æræ Diocletianæ.	1358.
Ab anno Olympiadico.	2417.	Ab Hegira ſeu fuga Mahometis.	1051.
		A Correctione Calendarij Gregor.	60.

In Juliano.		*In Gregoriano.*
9.	Aureus Numerus.	9.
27.	Cyclus Solis.	27.
B.	Literæ Dominicales.	E.
10.	Indictio Romana.	10.
9.	Epactæ.	29.
Hebd. 8. dier. 1.	Intervallum minus.	Hebd. 9. dier. 4.

Hoc anno Ingreſſus Solis in quatuor puncta ſignorum Cardinalium, ad Meridianum Uraniburgicum & tempus apparens, accidit Juliano Stylo.

♈	Die 10	Martij.	H.	22.	Min.	36.
♋	Die 12	Junij.	H.	1.	Min.	$58.\frac{1}{2}$
♎	Die 13	Septem.	H.	16.	Min.	32.
♑	Die 12	Decem.	H.	4.	Min.	6.

ECLIPSES AD ANNVM CHRISTI M. DC. XLII.

Quatuor hoc anno ſecundum calculum Tychonicum in duobus mundi Luminaribus erunt defectiones, duæ Solis, totidemq; Lunæ, quarum utraq; Lunæ in noſtro Horizonte; duæ verò Solis infra Horizontē apparebunt. Vt igitur hîc fidem noſtrarum Tabularum Eclipſigraphicarum experiamur, ſubjiciam ex præmiſſa Eclipſigraphia calculum omnium Meridiano Vraniburgico accommodatum, non quidem integrum, ſed tantùm veluti in typo ſumma eius capita, etiamſi priorem ☽ Eclipſim in Eclipſigraphia exempli loco tractaverimus.

Vtriuſq; deliquii Lunaris, quod à nobis obſervari poterit, calculus ita ſeſe ex Tabulis Eclipſigraphicis ſupputatus ad præmiſſa præcepta ſiſtit.

	IN PRIMA				IN SECUNDA.			
	Sexag vel dies	Gradus vel hora	M.	S.	Sexag vel dies	Gradus vel hora.	M	S
Media Luminar. ☍ accidit	4 April	1	4	14	28. Sept.	5	18	13
Intervallum int. med. & veram ☍		13	27	44		12.	46	6
Tempus apparens vera ☍	4 April	14	39	25	27. Sept.	16	47	10
Æquatio Æquinoctior. addenda			9	42			9	43
Anomalia ☉	4	46	48	23	1	40	21	12
Longitudo ☉ vera	0	25	12	0	3	14	48	2
Argumentum Latitud. ☽ verum	0	1	53	44	3	0	40	14
Anomalia ☽ coaquata	1	36	40	18	4	6	39	11
Longitudo ☽ vera	3	25	12	0	0	14	48	2
Latitudo ☽ vera			S.A.9	54		M	A 3.	30
Semidiameter ☽ simplex			16	24			16	41
Semidiameter ☽ correcta			18	44			19	1
Penumbra terræ limitata ob variationem umbræ			44	44			45	1
Aggregatum SSdd.			63	28			64	2
Pars deficiens			53	14			60	42
Proveniunt igitur digiti Ecliptici		17	9	24		19	9	6
Scrupula casus & moræ dimidiæ			62	41			64	6
Tempus incidentiæ & dimidia duratio		2	1	1		2	1	6
Scrupula solius moræ dimidiæ			24	3			25	56
Tempus moræ dimidiæ			46	30			49	4
Et tota duratio		4	2	22		4	2	32
Initium Eclipsis in Meridiano Uraniburg. p. m.		12	38	4		14	45	4
Principium totalis obscurationis		13	52	55		15	58	6
Medium defectus seu vera ☍ tempore apparente		14	39	25		16	47	10
Principium emersionis ex totali umbra		15	25	55		17	16	4
Finis Eclipsis tempore apparente		16	40	6		18	48	6
Latitudo ☽ ad initium Eclipsis			S. A. 4	1		S	D 2	0
Finem			S. A 15	48		M	A. 9	31

Meridianus prioris Eclipsis Lunaris à nostro versus occasum remotus est per 2 horas 59 minuta, sub Longitudine terræ 356 grad. 54 min. Videbunt autem hanc Eclipsin habitantes à Longitudine locorum 207 grad. ad Longitudinem usq; 46. Periœci autem nostrates & Antipodes, utpote qui degunt in Aurea Chersoneso, in littore Australi Cubæ, in Caponia nova Guinea, Java majori & minore, in Mexico, Moluccis, Philippinis & Salomonis Insulis, nec non Chinenses, nihil de hac Eclipsi videbunt: contra qui incolunt Peruanam partem, quæ Brasilia, à ligno, quod in ea abundat, dicta est, & in Orientali parte Brasiliæ, in terra del Fugo ultra mare Magellanicum, in Insulis Fortunatis, de S. Cruce, in extremitate Occidentali Indiæ, quiq; habitant ad Capo Bovet Frislandiæ Insulæ, & insulam S. Brandani eam in Meridiano observabunt.

Alteram Eclipsin ☽ notabunt illi in Meridiano qui subjiciuntur Longitudini loci 324 grad 57 min. Ad quem tractum referuntur extremitas Orientalis Franciæ novæ, Canada, S Jacob, quæ est metropolis Provinciæ Chili in America Meridionali, Calecut nova Hispaniæ, Insulæ Septentrionales de Caravillo: sic & Golfo de Merosso, Orientali ora freti Magellanici, Etsora & Charcas regiones Peruvianæ, Venezuela Castiliæ del Oro, Virginia &c in hisce enim regionibus omnibus Eclipsis ☽ non procul à Meridiano conspicietur.

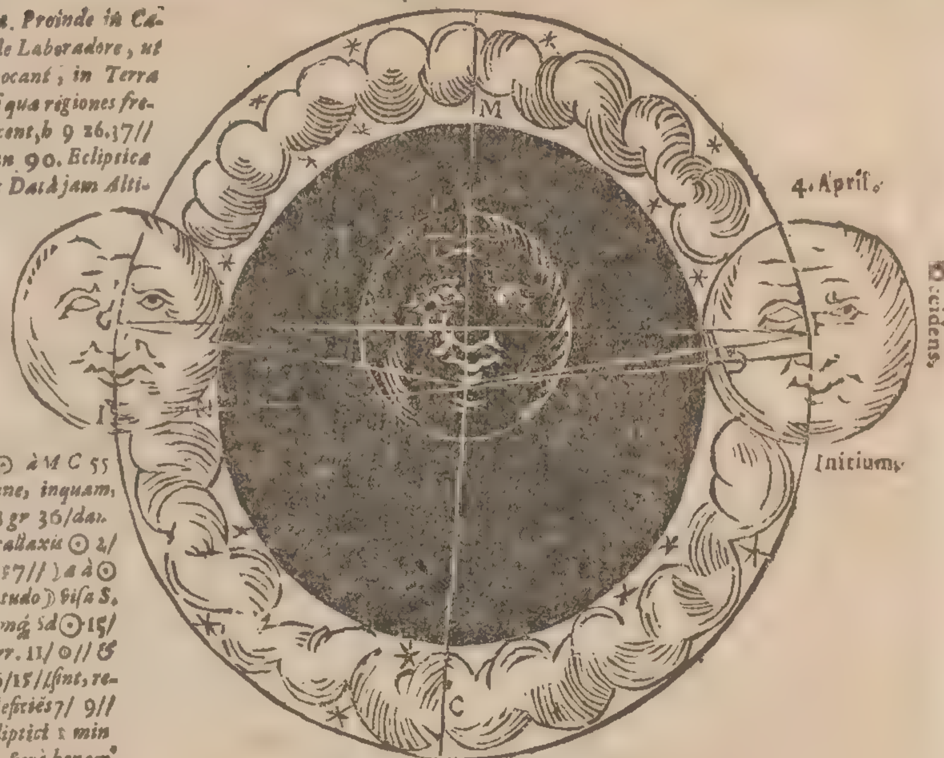
Sequuntur duæ ☉ Eclipses in nostris terris inconspicuæ.

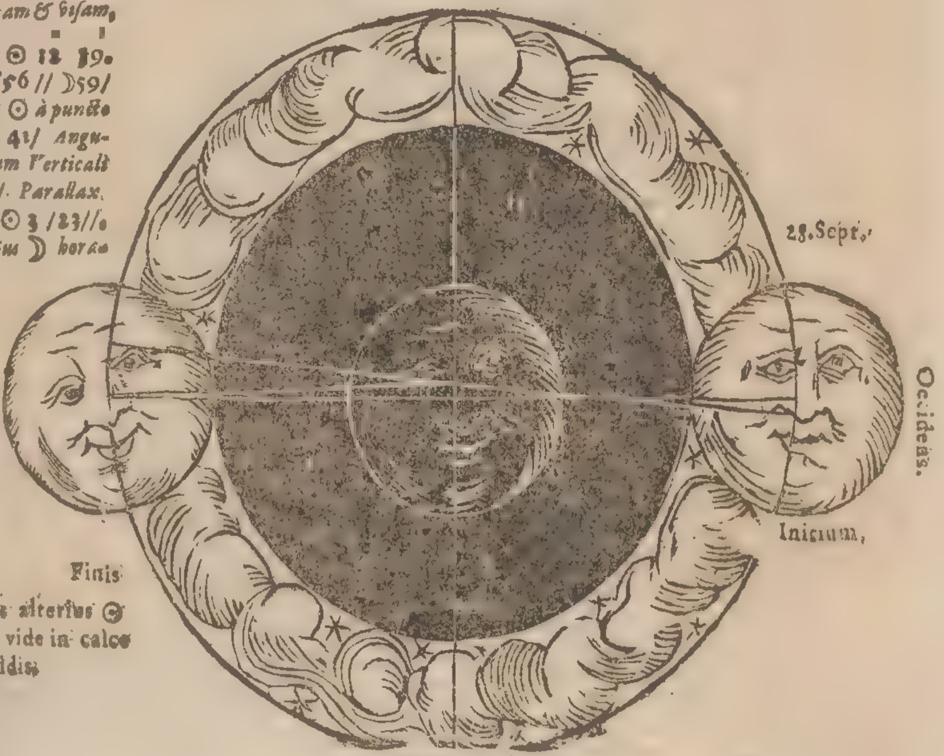
Quanquam hæ ☉ Eclipses exiguæ fuerint magnitudinis; nihilominus tamen in eorum gratiam qui in minutis Eclipsibus cœli inspicere non gravantur earum brevem delineationem juxta præcepta nostra hîc subjicimus.

In priori Eclipsi ☉ media Luminarium ☌ fiet Uraniburgi d. 20 Martii h 6 min 42 sec. 12. p m. Intervallum inter med. & veram ☌ subtrab. est 5 hor 37/ 8// Tempus veræ ☌ ad merid Uranib. eveniet h. 1. 8/ 9// quo tempore ambo Luminaria in 9 grad 58/3// ♈ concurrent. Anomalia ☉ est 4 sexag. 31 gr. 28/10//. Anomalia ☽ coæquata 4 Sexa. 23 gr 9/ 3// Argumentum Latit. ☽ 2. Sexag. 45 g. 41/18// Latitudo ☽ Sept. Desc. 1 gr 14/3// Hæc autem ☌ in nostro Horizonte ideo Ecliptica esse nequit, quia ad magnam Latitudinem ☽ Septentrionalem Parallaxis Latitudinis ☽ tam tantum imminuere nequeat, ut sit major summa SSdd ☉ & ☽: Si verò nos vertimus ad loca Septentrionaliora & Occidentaliora nobis, quæ sese extendunt ad Latitudinem 63 grad & Longitudinem 341 gr. 22/ inibi major erit Parallaxis Latitudinis ☽, ita ut in iis locis hæc copula Luminarium Ecliptica futura sit; illa enim sunt per 3 hor. 41/32//. Uraniburgo Occiden-

Typi Eclipsium ☽ ad annum Christi 1642.

Occidentaliera. Proinde in Canada, Terra de Laboradore, ut Hispani eam Ʋocant; in Terra Cortereali, & si qua regiones freto Daʋis adjacent, h 9 26.37// Ʋera & Ʋisa ☌ in 90. Eclipticæ gradum incidet Datâ jam Altitudine Luminarium ex distantia polor. & Horizont 27° Complemento Declinat. ☉ 86 gr. 2/ 20// & denique distantia ☉ à M C 55 gr. 13/ altitudine, inquam, Luminarium 18 gr 36/ datur quoque Parallaxis ☉ 2/ 50// ☽ a 57/ 57// ☽ a à ☉ 55/7// & Latitudo ☽ Ʋisa S. D 18/ 56// Cumque Sd ☉ 15/ 15 // Sd ☽ corr. 11/ 0// & aegreg. Sdd. 16/15// sint, relinquitur pars deficiēs 7/ 9// & ipsi digiti E-cliptici 1 min 53. Ad unam Ʋerò horam retrò ante ☌ Ʋeram & Ʋisam, datur Altitudo ☉ 12 39. Parallaxis ☉ 2/56 // ☽ 59/ 40//. Distantia ☉ à puncto Orientis 164 gr 41/ Angulus Eclipticæ cum Verticali 86 gr. 34/30 //. Parallax. Longitudin ☽ à ☉ 3 /23//. Cumque Ʋerus motus ☽ horarius sit 30/ 58//. existit Ʋisus ☽ horarius 27/ 33// scrupula casus 13/ 11// Tempus incidētiæ 39/ 33// ita ut tota duratio sit 1. hor. 19/6//





Calculi Eclipsis alterius ☉ summa capita vide in calce huius Ephemeridis.

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit.	Lat	Long t.	Lat	Longit	Lat	Longitudo.	Longit	Lat	Longit.	Lat	Longit.	Latit.	Longit
		♓	M. D	♒	M. A	♐	S D	♑	♐	S D	♐	S D	♊	M	♏
		G. M	I	G. M.	O	G. M.	O	G. M. S.	G. M.	O	G. M	Z	G. M.	A	G. M.
1	11	9. 17	52	16.56	49	9. 49	3	21.31.57	24.14	47	28.34	17	1. 2	2 39	0. 9
2	☉12	9. 23	52	17.10	49	10.31	2	22.33.12	25.29	45	29.13	7	12.56	3 28	0. 7
3	13	9. 29	52	17.24	49	11.13	2	23.34.26	26.44	42	29 55	57	24 48	4 7	♎ 29.50
4	14	9. 35	52	17.38	49	11.55	1	24.35.39	27.59	39	♑ 0. 40	48	♋ 6. 41	4 37	29.20
5	15	9. 41	52	17.53	49	12.37	0 M	25.36.51	29 14	37	1. 29	38	18 36	4 54	28.40
6.	16	9. 47	52	18. 7	49	13.19	0	26.38. 3	♑ 0. 29	34	2. 21	28	♌ 0. 35	4 58	27.55
7	17	9. 53	52	18.21	49	14. 1	1	27.39.14	1. 44	31	3. 18	18	12.39	D 4 49	27.13
8	18	9. 59	52	18.36	49	14.43	2	28.40.24	2. 59	28	4. 17	8	24 49	4 27	26.38
9	☉19	10. 5	52	18.50	49	15.25	3	29.41.33	4. 13	26	5. 25	.O. 59	♍ 7. 7	3 51	26.18
10	20	10.12	52	19. 4	49	16. 7	4	♒ 0 42.41	5. 28	23	6. 26	49	19 31	3 5	26.12
11	21	10.18	52	19.19	49	16.49	4	1. 43.47	6. 43	20	7. 35	39	♎ 2 7	2 9	26.24
12	22	10.24	51	19.33	49	17.31	5	2. 44.53	7. 58	18	8. 45	30	14.56	1 6	26.52
13	23	10.31	51	19.47	49	18.14	6	3. 45.58	9. 12	15	9. 57	22	28. 2	0 2	27.27
14	24	10.37	51	20. 2	49	18.56	7	4. 47. 3	10.27	12	11.10	13	♏ 11.28	S 1 11	28. 8
15	25	10.44	51	20.16	49	19.38	7	5. 48. 7	11.42	9	12.25	4	25 17	2 20	28.47
16	☉26	10.50	51	20.30	50	20.20	8	6. 49. 9	12.57	7	13.41	M 5	♐ 9. 31	3 21	29.13
17	27	10.57	51	20.44	50	21. 3	9	7. 50. 9	14.12	4	14.59	13	24. 7	4 11	29.21
18	28	11. 4	51	20.58	50	21.45	10	8. 51. 8	15.26	1 M	16.19	21	♑ 9 3	4 44	29. 5
19	29	11.10	51	21.13	50	22.27	10	9. 52. 6	16.41	1	17.40	28	24 8	4 59	28.26
20	30	11.17	51	21.27	50	23.10	11	10.53. 3	17 56	4	19. 2	36	♒ 9. 19	D 4 52	27.32
21	31	11.24	51	21.41	50	23.52	12	11.53.59	19.11	7	20.25	44	24 18	4 25	26.37
22	Fe. 1	11.31	51	21.55	50	24.35	13	12.54.54	20.26	9	21.49	50	♓ 8. 57	3 41	25.54
23	☉2	11.38	51	22. 9	50	25.17	14	13.55.47	21.40	12	23.14	57	23.12	2 44	25.31
24	3	11.45	51	22.23	50	26. 0	14	14.56.38	22.55	14	24.40	I 3	♈ 6. 58	1 39	25.39
25	4	11.52	51	22.38	50	26.42	15	15.57.27	24.10	17	26. 7	9	20 15	0 31	25.48
26	5	11.59	51	22.52	50	27.25	16	16.58.13	25.25	20	27.34	16	♉ 3. 5	M 0 37	26.18
27	6	12. 6	51	23. 6	50	28. 8	17	17.58.58	26.39	22	29. 2	21	15.34	1 41	26.54
28	7	12.13	51	23.20	50	28.50	17	18.59.42	27.54	24	♒ 0 30	26	27 44	2 39	27.31
29	8	12.20	51	23.34	50	29.33	18	20.0. 25	29 9	27	2. 0	31	♊ 9 43	3 29	28. 3
30	☉ 9	12.27	50	23.48	50	♑ 0. 16	19	21.1. 7	♒ 0. 24	29	3. 31	35	21.35	4 10	28.25
31	10	12.34	50	24. 3	50	0. 59	20	22.1. 49	1. 39	32	5. 3	40	♋ 3. 25	4 39	28.35

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid.	♃ Occid.	♂ Orien.	☉	♀ Oriét.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Circumcis.	□ 17		☍ 19					11 Januar.
2 *B Abel*		△ 9						12 *E.1.p.Epip*
3					☍ 4.	☍ 11		13 Hilarius
4 Telespho.	△ 6						☽ Apog.	14 Felix
5 Simeon				☍ 15,21				15
6 Epiphan.								16 Marcellus
7 Julian		☍ 12	△ 3					17 Antonius
8 Erhardus					△ 18	△ 20.		18 Prisca
9 *B.1.p.Epi.*	☍ 6		□ 17					19 *E.2.p.Ep.*
10 Paul.Er.				△ 23.			☿ in Elon. Max. (	20 Fab. Seb.
11 Hyginus					□ 9.	□ 11	(à ☉ e.	21 Agnes
12		△ 8.	⚹ 5				☽ ☊	22 Vincent.
13 Hilarius	△ 22.			□ 1,5	⚹ 22	⚹ 23.	⚹ ♄ ☿ 12	23
14 Felix		□ 15					⚹ ♄ ♀ 3.	24 Timoth.
15				⚹ 17			☌ ♀ ☿ ferè	25 Conv.P.
16 *B.2 p.Ep.*	□ 2	⚹ 18.	☌ 18.				⚹ ♃ ♂ 8	26 *E.3.p.Ep.*
17 Anton.								27
18 Prisca	⚹ 3				☌ 11	☌ 13	☽ Perig.	28
19								29
20 Fab. Seb.		☌ 20	⚹ 23	☌ 2.36			SS ☉ ♄	30 Adelgun.
21 Agnes								31
22 Vincent.	☍ 4.				⚹ 21		SS ♃ ☿	1 Febr. Brig.
23 *B 3.p.Ep*			□ 4			⚹ 0	SS ♃ ♀	2 *E 4.* Pu.M.
24 Timoth.				⚹ 15.				3 Blasius
25 Conv.P.		⚹ 4.	△ 13		□ 8	□ 12.	SS ♂ ☿. ☽ ☋	4
26 Polycar	⚹ 17							5 Agatha
27		□ 15		□ 5,12				6 Dorothea 10.5.
28					△ 0.	△ 6		7
29	□ 5			△ 23			SS ♂ ♀	8
30 *B.4.p.Ep*		△ 4.	☍ 19					9 *E.5.p.Ep.*
31	△ 19							10 Scholast.

Styl. Veteri	Stylo Novo	♄ Longit ♓ G. M.	♄ Lat M D I	♃ Longit. ♒ G. M.	♃ Lat M A O	♂ Longit ♑ G. M.	♂ Lat M A O	☉ Longitudo. ♒ G. M. S	♀ Longit ♒ G. M.	♀ Lat M A O	☿ Longit. ♒ G. M.	☿ La. M A I	☽ Longit. ♋ G. M.	☽ Latit M A G. M.	☊ Longit. ♎ G. M.
1	11	12,41	50	24.17	50	1. 42	21	23.2. 30	2. 54	34	6. 37	45	15.17	4 56	28.31
2	12	12,48	50 A.	24.32	50	2. 24	21	24.3. 8	4. 9	36	8. 11	48	27.14	5 2	28.11
3	13	12,55	50	24.46	50	3. 7	22	25.3. 44	5. 24	39	9. 45	51	♌ 9. 18	D. 4 54	27.38
4	14	13. 2	50	25. 0	50	3. 49	23	26.4. 18	6. 39	41	11,20	55	21.32	4 32	26,56
5	15	13. 9	50	25.15	50	4. 32	24	27.4. 49	7. 53	43	12,56	58 .Z.	♍ 3. 54	3 57	26. 9
6	☉16	13.16	50	25,29	51	5. 15	25	28.5. 17	9. 8	45	14.34	1	16.27	3 9	25.27
7	17	13.23	51	25.43	51	5. 57	26	29.5. 44	10,23	47	16.13	2	29 9	2 12	24.55
8	18	13.30	51	25.58	51	6. 40	27	♓ 0 6. 9	11.37	49	17.52	4	♎ 12. 1	1 8	24.39
9	19	13.37	51	26.12	51	7. 23	28	1. 6. 33	12.52	51	19.32	5	25. 40	0 1 S	24.42
10	20	13.45	51	26.26	51	8. 6	29	2. 6. 55	14. 7	53	21.12	6	♏ 8. 19	1 12	25. 2
11	21	13.52	51	26.41	51	8. 49	30	3. 7. 15	15.21	55	22.53	8	21.48	2 20	25,36
12	22	13,59	51	26.55	51	9. 32	31	4. 7. 33	16.35	57	24.34	8	♐ 5. 31	3 20	26.17
13	☉23	14. 7	51	27. 9	51	10.15	32	5. 7. 49	17.50	59	26.15	8	19 35	4 11	26.59
14	24	14.14	51	27.23	51	10.58	32	6. 8. 3	19. 4	1 I	27.57	8	♑ 3. 50	4 47	27.32
15	25	14.22	51	27.37	51	11.41	33	7. 8. 16	20.19	2	29 39	9 D.	18.23	5 4 D	27.48
16	26	14.29	51	27.52	51	12.24	34	[illegible]. 8. 28	21,34	4	♓ 1. 21	9	♒ 3. 6	5 3	27.40
17	27	14.37	51	28. 6	52	13. 7	35	9. 8. 37	22.48	6	3. 9	5 I	17.53	4 41	27.10
18	28 Mar	14.44	51	28,20	52	13,50	36	10 8. 44	24. 3	7	5. 4	1	♓ 2. 34	4 2	26.23
19	1	14.52	51	28.35	52	14.33	37	11..8 49	25.17	9	6. 59	56	17. 3	3 6	25,28
20	☉2	14.59	51	28.49	52	15.16	38	12,8. 52	26,32	10	8. 54	52	♈ 1. 11	2 0	24.40
21	3	15. 7	51	29. 3	52	15,59	39	13,8. 53	27.47	12	10,49	48	14.56	0 49	24. 7
22	4	15.14	51	29.18	52	16.42	40	14,8. 52	29. 2	13	12,43	42	28 16	0 23	23,55
23	5	15.22	51	29,32	52	17.25	41	15.8. 47	♓ 0. 16	14	14.37	36	♉ 11.10	M. 1 32	24. 0
24	6	15.29	51	29 46	52	18. 9	42	16,8. 39	1. 31	15	16.32	31	23.43	2 34	24.21
25	7	15.37	51	♓ 0. 0	52	18,52	43	17,8. 30	2. 45	17	18.27	25	♊ 5. 57	3 28	24.52
26	8	15.44	51	0. 14	52	19.35	43	18.8. 20	4. 0	18	20.23	19	17.58	4 12	25.27
27	☉9	15.52	51	0. 28	52	20.18	44	19,8. 8	5. 14	19	22.20	12	29.50	4 44	26, 2
28	10	15.59	51	0. 43	53	21. 2	45	20,7. 53	6. 29	20	24.19	5	♋ 11 39	5 4	26.32

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ Occid	♂ Oriēt.	☉	♀ Oriēt.	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Febr.							☽ Apog.	1 Februar.
2 Purif. M.					☍15.		☌☉♃ 15	12
3 Blasius		orien				☍1		13
4		☍7		☍9.34				14 Valentinus
5 Agatha	☍18		△1				SS ♄☿	5 Faustinus
6 *B Sept.*								5 *E. Septuag*
7			□14		△23			7
8						△12.	☽☊	8 Concordia
9 Apollonia		△2	✱23.	△11.			SS ♄♀	19
10 Scholast.	△10				□11.			20
11		□9		□21.21		□2		21
12	□14.				✱21			22 Cath. P.
13 *B Sexag.*		✱13				✱13	☌♃☿ 15	23 *E Sexages.*
14 Valentin.	✱17		☌12.	✱4				24 Matth.
15 Faustinus							☽ Perig.	25
16 Juliana								26
17		☌7			☌9			27
18 Concord.	☌20.		✱19.	☌13.30		☌5		28 Romanus
19							✱♄♂ 13	1 Martij
20 *B Esto M.*								2 *E. Esto M.*
21			□2				☽☋	3
22 Cath. P.		✱2			✱1.		☌♃♀ 6.	4 Adrianus
23 Cinerum	✱8		△13	✱8		✱8	☌☉♄ 6 ☌♄☿ 10 (	5 Cinerum
24 Matth.	Orien	□12			□17	Occi.	(☌☉☿ 14	6 Fridelinus
25	□19.						✱♂☿ 8.	7 Perpetua
26				□0.22		□6		8
27 *B Invoc.*					△12			9 *E Invocav.*
28 Roman.	△9		☍22.	△16.				10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	Longit.
		♓	M A	♓	M A	♑	M A	♓	♓	M A	♓	M D	♋	M A	♎
		G. M.	I	G. M.	O	G. M.	O	G. M. S	G. M.	I	G. M.	O	G. M.	G. M.	G. M.
1	11	16. 7	51	0. 57	53	21.45	46	21.7. 36	7. 43	21	26.19	57	23 31	5 11	26.53
2	12	16.14	51	1. 11	53	22.28	47	22.7. 18	8. 58	22	28.19	47	♌ 5. 28	D 5 6	27. 1[illegible]
3	13	16.22	51	1. 25	53	23.11	48	23.6. 57	10. 2	22	♈ 0. 19	37	17.37	4 45	26.55
4	14	16.29	51	1. 39	53	23.55	49	24.6. 34	11.27	23	2. 19	26	29 57	4 13	26.30
5	15	16.37	51	1. 53	53	24.38	50	25.6. 8	12.41	24	4. 18	16	♍ 12 31	3 26	25.5[illegible]
6 ☉	16	16.44	51	2. 6	53	25.21	51	26.5. 40	13.55	24	6. 16	6	25 20	2 29	25. 6
7	17	16.52	52	2. 20	53	26. 4	52	27.5. 10	15. 9	25	8. 14	6	♎ 8. 25	1 23	24.1[illegible]
8	18	16.59	52	2. 34	54	26.48	53	28.4. 38	16 24	25	10.11	18	21 39	0 11	23.3[illegible]
9	19	17. 6	52	2. 47	54	27.31	54	29.4. 4	17.38	26	12. 7	29	♏ 5. 6	S. 1 3	23.11
10	20	17.14	52	3. 1	54	28.14	55	♈ 0 3. 28	18.53	26	13.58	41	18.44	2 13	23. [illegible]
11	21	17.21	52	3. 15	54	28.57	56	1. 2. 50	20. 7	26	15.46	53 1	♐ 2. 28	3 17	23.1[illegible]
12	22	17.28	52	3. 28	54	29.41	58	2. 2. 9	21.22	27	17.32	5	16 22	4 11	23.49
13 ☉	23	17.36	52	3. 42	54	♒ 0 24	59 1	3. 1. 26	22.36	27	19.15	17	♑ 0. 22	4 45	24.31
14	24	17.43	52	3. 55	54	1. 7	0	4. 0. 41	23.51	27	20.56	29	14.29	5 11	25.14
15	25	17.50	52	4. 9	55	1. 51	1	4. 59.53	25. 5	D 27	22.31	41	28 42	5 14 D	25.5[illegible]
16	26	17.57	52	4. 22	55	2. 34	2	5. 59. 4	26.19	27	23.59	53 2.	♒ 12.59	4 57	26.1[illegible]
17	27	18. 4	53	4. 35	55	3. 18	3	6. 59.12	27.34	27	25.23	3	27.17	4 22	26.1[illegible]
18	28	18.11	53	4. 49	55	4. 1	4	7. 58.17	28 48	26	26.40	12	♓ 11.30	3 32	25.51
19	29	18.18	53	5. 2	55	4. 45	5	8. 57.21	♈ 0. 2	26	27.52	21	25.34	2 28	25.11
20 ☉	30	18.25	53	5. 15	55	5. 28	6	9. 56.22	1. 17	26	28.57	31	♈ 9 24	1 18	24 2[illegible]
21	31	18.32	53	5. 28	55	6. 12	7	10.54.22	2. 31	25	29 55	42	22 56	0 3	23.31
22	Ap. 1	18.39	53	5. 41	56	6. 55	8	11.53.20	3. 45	25	♉ 0. 48	46	♉ 6. 9	M 1 9	22.5[illegible]
23	2	18.46	53	5. 54	56	7. 39	9	12.52.15	5. 0	24	1. 34	50	19. 2	2 15	22.26
24	3	18.53	53	6. 7	56	8. 22	10	13.51. 8	6. 14	24	2. 14	54	♊ 1. 36	3 15	22.20
25	4	19. 0	53	6. 20	56	9. 6	11	14.49.59	7. 28	23	2. 46	58 3	13.52	4 4	22.30
26	5	19. 7	53	6. 33	56	9. 50	12	15.48.49	8. 42	23	3. 11	2	25.55	4 40	22.5[illegible]
27 ☉	6	19.14	54	6. 46	56	10.33	13	16.47.36	9. 57	22	3. 28	0 D	♋ 7. 49	5 5	22.2[illegible]
28	7	19.20	54	6. 58	56	11.17	14	17.46.21	11.11	21	3. 38	58	19 39	5 17	23.59
29	8	19.27	54	7. 11	57	12. 0	15	18.45. 3	12 25	20	3. 41 Retr.	55	♌ 1. 29	I. 5 15	24 3[illegible]
30	9	19.34	54	7. 24	57	12.44	16	19.43.43	13.39	19	3 40	53	13 25	4 59	25. 2[illegible]
31	10	19 41	54	7. 36	57	13.17	17	20.42.21	14.53	18	3. 36	51	25 34	4 30	[illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriét.	♃ orien.	♂ Orien.	☉	♀ Orien.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.	
1 Martij		△ 15				△ 7	☽ Apog.	11 Mart.	
2 Simplic.								12 Gregor.	
3							✱☉♂ 6.	13 Euphras.	
4 Adrianus		☍ 3						14	
5	☍ 8				☍ 0.			15	
6 *B. Remin.*			△ 0	☍ 1. 31		☍ 23.		16 *E. Rem.*	
7 Perpetua								17 Gertrud.	
8		△ 20	□ 9.				☍♄♀ 12. ☽☊	18	
9	△ 21.							19 Joseph.	
10			✱ 17.	△ 21.	△ 0.			20	
11		□ 1						21 Benedict.	
12 Gregor.	□ 2				□ 9.	△ 2	SS ♄☿ 0	22	
13 *B. Oculi*		✱ 6		□ 4. 50				23 *E. Oculi*	
14	✱ 5.				✱ 17.	□ 12	SS ☉♃ 0 ☽ Pe.	24	
15			☌ 5.	✱ 9.				25 An. Mar.	
16 Cyriacus						✱ 20.		26 Castulus	
17 Gertrud.		☌ 12.						27	
18	☌ 11.							28	
19 Joseph.			✱ 17		☌ 8.		SS ♃♂	29 Eustach	
20 *B. Læt.*				☌ 1. 5.			Eclipsis ☉	30 *E. Læt.*	3 A
21 Benedict		✱ 23				☌ 13.	☽☋	31	
22	✱ 23.		□ 1.					1 April.	
23							☿ Elong. Max. (	2 Mar. Æg.	
24		□ 9	△ 14		✱ 10		SS ♃♀ (à ☉e	3	
25 An. Mar.	□ 10			✱ 2				4 Ambros.	
26 Castulus		△ 22				✱ 15		5	
27 *B Iudic.*	△ 23.			□ 19. 52	□ 8		☽ Apog.	6 *E. Iudic.*	5 A
28							✱♂♀ 4.	7 Egesipp.	
29 Eustach.			☍ 22.			□ 4.	SS ☉♄	8	
30				△ 13.	△ 0.		☿ Station.	9	
31		☍ 23.				△ 15.		10	

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M	♄ Lat M. A I	♃ Longit. ♓ G. M.	♃ Lat M. A O	♂ Longit. ♒ G. M.	♂ Lat M A I	☉ Longitudo. ♈ G. M. S.	♀ Longit. ♈ G. M	♀ Lat M D I	☿ Longit. ♉ G. M	☿ Lat S D Z	☽ Longit. ♍ G. M.	☽ Latit. M D G. M.	☊ Longit. ♎ G. M.
1	11	19.47	54	7. 49	57	14.11	18	21.40.58	16. 7	17	3. 27	48	7. 57	3 47	25.26
2	12	19.54	54	8. 2	57	14.55	19	22.39.33	17.21	16	3. 12	38	20 38	2 53	25.14
3	☉ 13	20. 1	54	8. 14	57	15.38	20	23.38.26	18.35	15	2. 51	28	♎ 3. 38	1 48	24.42
4	14	20. 7	55	8. 26	58	16.22	21	24.37.36	19.49	14	2. 23	18	16 58	0 37	24. 0
5	15	20.14	55	8. 38	58	17. 6	22	25.36. 4	21. 3	13	1. 48	8 1	♏ 0 36	S. 0 38	23. 9
6.	16	20.20	55	8. 50	58	17.49	23	26.33.31	22.17	11	1. 5	58	14.30	1 53	22.20
7	17	20.27	55	9. 2	58	18.33	24	27.31.55	23.31	10	0. 23	42	28 36	3 1	21.45
8	18	20.33	55	9. 14	58	19.17	26	28.30.19	24.45	9	♈ 29.41	27	♐ 12 49	4 0	21.32
9	19	20.39	55	9. 25	59	20. 0	27	29.28.40	25.59	7	29. 0	11 0	27. 5	4 43	21.40
10 ☉	20	20.46	56	9. 37	59	20.44	28	♉ 0. 26 58	27.14	6	28.18	56	♑ 11 21	5 9	22. 7
11	21	20.52	56	9. 48	59	21.27	29	1. 25.13	28.28	4	27.36	41	25.32	5 17 D	22.47
12	22	20.58	56	10. 0	59	22.11	30	2. 23.27	29 42	3	26.55	24	♒ 9. 37	5 5	23.30
13	23	21. 4	56	10.11	59 1	22.54	31	3. 21.39	♉ 0. 56	1 0	26.15	7 M	23 37	4 35	24.10
14	24	21.10	56	10.22	0	23.38	32	4. 19.49	2. 10	59	25.37	10	♓ 7 29	3 49	24.38
15	25	21.16	57	10.33	0	24.21	33	5. 17.58	3. 24	57	25. 2	27	21.14	2 51	24.41
16	26	21.22	57	10.44	0	25. 4	34	6. 16. 6	4. 38	56	24.31	44	♈ 4 49	1 43	24.28
17 ☉	27	21.28	57	10.55	0	25.47	35	7. 14 11	5. 52	54	24. 4	58 1	18.13	0 30 M	23.56
18	28	21.34	57	11. 6	0	26.31	36	8. 12.15	7. 6	52	23.41	13	♉ 1. 25	0 42	23.12
19	29	21.40	57	11.17	1	27.14	37	9. 10.17	8. 20	50	23.23	27	14.22	1 52	22.23
20	30 Maj	21.45	57	11.27	1	27.58	38	10.8. 17	9. 34	48	23.10	42	27. 6	2 54	21.39
21	1	21.51	58	11.38	1	28.41	39	11.6. 15	10.48	46	23. 2	57 Z	♊ 9. 34	3 46	21. 6
22	2	21.57	58	11 48	1	29 24	41	12.4. 12	12. 2	44	22.59 Dir	7	21.50	4 27	20.48
23	3	22. 2	58	11.58	1	♓ 0. 7	42	13.2. 7	13.16	42	23. 1	18	♋ 3. 53	4 57	20.47
24 ☉	4	22. 8	58	12. [illegible]	2	0. 50	43	14. 0. 1	14.30	40	23. 6	28	15.48	5 13	21. 0
25	5	22.13	58	12.18	2	1. 33	44	14.57.53	15 44	38	23.15	39	27.39	5 14 D	21.24
26	6	22.18	58	12.28	2	2. 16	45	15.55.43	16.58	36	23.28	49	♌ 9. 29	5 2	21.57
27	7	22.24	59	12.38	2	2. 59	46	16.53.32	18.12	34	23.47	55 3	21.24	4 38	22.3
28	8	22.29	59	12.48	2	3. 42	47	17.51.19	19.26	31	24.10	1	♍ 3. 30	4 1	23.
29	9	22.34	59	12.58	3	4. 25	48	18.49. 5	20.40	29	24.38	7	15.52	3 13	23.3
30	10	22.39	59	13. 7	3	5. 8	49	19.46.49	21.54	27	25.11	13	28.32	2 13	23.5

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Oriét.	♂ oriét	☉	♀ Oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.	
1 April.	☍22.							11 Aprilis	
2 Mar Æg.								12 Julius	
3 *B. Palm.*			△23				(Eclips.☽	13 *E. Palm.*	
4 Ambros.				☍14.32	☍5.		SS♄♀ ☽☊(	14 Tiburtius	7 A
5		△12.				☍2		15 Olympia.	
6	△10		□6					16	
7 Egesippus		□18						17	
8	□13		✱11.		△22	Oriét.	☌☉☿17	18 Valerianus	
9		✱21		△4.		△3		19	
10 *B. Pasch.*	✱16						SS♄♂.☾Perig.	20 *E. Pasch.*	8 A
11				□10.46	□5.	□3.		21	
12 Julius			☌23					22	
13 Justinus				✱18	✱14	✱4.		23 Georgius	
14 Tiburt.		☌5						24 Albertus	
15 Olympia	☌0						✱♂☿13	25 Marcus	
16								26	
17 *B Quasim.*			✱14.			☌9.	☽☋	27 *E. Quasim*	
18 Valerian.		✱18		☌13.35	☌11.			28 Vitalis	10 A
19	✱14						Q☉♂	29	
20			□2				Q♂♀	30	
21		□4					✱♃♀19 ✱☉♃16	1 Maji	
22	□0		△16			✱2	☌☉♀3	2	
23 Georgius		△16.		✱20	✱21		☽ Apog.	3 Invent. ✠	
24 *B. Mis. D*	△14				Occid	□15		4 *E. Mis. D.*	
25 Marcus								5 Gothard.	
26				□14.8	□17			6 Jo.ant. p.	
27 Anastas.						△5		7	
28 Vitalis		☍18	☍0.					8 Stanislaus	
29	☍13			△6	△10			9	
30							✱♄♀15.	10	

Styl. Veteri	Stylo Novo	♄ Longit. ♓ G. M.	Lat M. A I	♃ Long t. ♓ G. M.	Lat M. A I	♂ Longit. ♓ G. M	Lat M A I	☉ Longitudo. ♉ G. M. S.	♀ Longit. ♉ G. M.	Lat M D O	☿ Longit. ♈ G. M	Lat M A 3	☽ Longit. ♎ G. M.	Latit. M D G. M.	☊ Longit. ♎ G. M
1 ☉	11	22.44	59 Z	13.17	3	5. 51	50	20.44.32	23. 8	25	25.48	18	11.35	1 5	23.42
2	12	22.49	0	13.27	3	6. 34	51	21.42.13	24.22	22	26.29	18 D	25. 40	0 8 S	23.28
3	13	22.54	0	13.36	3	7. 17	52	22.39.52	25.36	20	27.13	18	♏ 8. 56	1 23	22.49
4	14	22.59	0	13 45	4	8. 0	53	23.37.30	26.50	18 A	28. 0	18	23.10	2 35	21.5
5	15	23. 4	0	13.54	4	8. 43	54	24.35. 7	28. 4	16	28.51	17	♐ 7. 41	3 37	21.
6.	16	23. 9	1	14. 3	4	9. 26	55	25.32.43	29.18	13	29 45	17	22.23	4 27	20.21
7	17	23.13	1	14.12	4	10. 9	56	26.30.17	♊ 0. 32	11	♉ 0. 43	17	♑ 7. 8	4 58	20. 1
8 ☉	18	23.18	1	14.20	5	10.52	57	27.27.50	1. 46	8	1. 44	17	21.47	5 11	20.
9	19	23.22	1	14.28	5	11.35	58	28.25.22	3. 0	6	2. 48	17	♒ 6. 15	D 5 2	20.2
10	20	23.27	1	14.36	5	12.18	59 Z	29.22 53	4. 14	4	3. 56	17	20.27	4 37	21.
11	21	23.31	2	14.44	5	13. 1	0	♊ 0. 20.22	5. 27	1 S	5. 7	17	♓ 4. 23	3 54	21.
12	22	23.35	2	14.52	6	13.43	1	1. 17.51	6. 41	1	6. 21	12	18. 3	2 29	22.
13	23	23.39	2	15. 0	6	14.26	2	2. 15.19	7. 55	3	7. 37	6	♈ 1. 28	1 55	22.5
14	24	23.43	2	15. 8	6	15. 8	3	3. 12.45	9. 9	6	8. 56	1 Z	14.40	0 46	23.
15 ☉	25	23.47	3	15.16	7	15.51	4	4. 10.10	10.22	8	10.17	56	27 40	0 24 M	23.
16	26	23.51	3	15.24	7	16.34	5	5. 7. 34	11.36	11	11.41	51	♉ 10.29	1 33	22.
17	27	23.55	3	15.31	7	17.16	6	6. 4. 57	12.50	13	13. 7	43	23 7	2 34	22.
18	28	23.59	3	15.38	7	17.59	7	7. 2. 19	14. 4	15	14.36	35	♊ 5 36	3 28	21.1
19	29	24. 3	4	15.45	8	18.41	8	7. 59.40	15.18	18	16. 8	27	17 55	4 12	20.
20	30	24. 6	4	15.52	8	19.23	9	8. 57. 0	16.31	20	17.43	19	♋ 0 5	4 42	19.
21	31	24.10	4	15.59	8	20. 5	10	9. 54.18	17 45	22	19.21	12	12. 7	5 0	19.
22 ☉	Iun 1	24.13	4	16. 6	8	20.47	11	10.51.36	18.51	25	21. 1	2 .I.	24. 2	5 6 D	19 1
23	2	24.17	4	16.12	9	21.29	12	11.48.53	20.12	27	22.43	52	♌ 5. 53	4 58	19
24	3	24.20	5	16.18	9	22.11	14	12.46. 9	21.26	29	24.28	42	17.44	4 37	19
25	4	24.23	5	16.24	9	22.52	15	13 43.24	22.39	32	26.15	32	29 39	4 4	20.
26	5	24.26	5	16.30	9	23 34	16	14.40.38	23.53	34	28. 4	22	♍ 11.42	3 20	20
27	6	24.29	5	16.36	10	24.15	17	15.37.52	25. 7	36	29.55	11	24. 0	2 25	21
28	7	24.32	6	16.41	10	24.56	18	16.35. 5	26.21	38	♊ 1. 48	0 O	♎ 6. 38	1 23	21
29 ☾	8	24.35	6	16.47	10	25.37	19	17.32.18	27.34	40	3. 44	49	19.38	0 14 S	22
30	9	24.37	6	16.52	10	26.18	20	18.29.30	28 48	43	5. 43	38	♏ 3. 5	0 57	22
31	10	24 40	7	16.57	11	26.55	21	19.26.42	♋ 0. 1	45	7. 45	28	17. 1	2 8	22.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriét.	♃ orien.	♂ Orien.	☉	♀ occid.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Maji *B. Iub.*							☽☊	11 *E. Iubil.*
2			△21			☍2.		12 Pancrat.
3 Inv. ✠	△23.	△8					✱☉♄ 6.|Q♃♀	13 Servat.
4 Florian.				☍0.48	☍7			14
5 Gothard.		□10	□2					15
6 Jo.ant.p.	□1					△13		16
7		✱12	✱5				☽ Perig.	17
8 *B. Cant.*	✱2.			△10	△18	□18		18 *E. Cant.*
9								19 Bernhar.
10				□16.31				20
11 Mamert.		☌8.	☌16		□2	✱1.	Q♄♀ ☿ Elong.	21
12 Pancrat.	☌10						max. à ☉.	22
13 Servat.				✱1.	✱13			23 Desider.
14							☌♃♂0 ☽☋	24
15 *B. Rog.*							SS♀☿ 0	25 *Voc. Iuc.*
16		✱9.	✱12			☌2.	Q☉♄	26 Beda
17	✱1.							27
18 Potent.		□20		☌3.2	☌18.		✱♃☿17.	28
19 Asc.D.	□12		□1.				□♃♀10	29 Asc.D.
20								30 Wigan.
21		△8	△17			✱17	✱♂☿18 ☽ Apo.	31 Petron.
22 *B. Exau.*	△0.							1 Jun. *E. Ex.*
23 Desider.				✱13			✱♄☿21	2 Marcell.
24	☍13.				✱7	□16		3 Erasmus
25 Urbanus							□♂♀10	4
26 Beda		☍9.		□6.16			□♄♀11 Q♃☿	5
27			☍0.		□2.	△13	☌♄♂9	6
28				△10			□☉♃3	7
29 *B. Pent.*					△15.		☽☊	8 *E. Pentec.*
30 VVigan.							Q♄☿	9
31 Petron.	△13	△0	△17.					10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♓	M A Z	♓	M A I	♓	M A Z	♊	♋	S A O	♊	M D O	♐	S A	♎
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	24.42	7	17. 2	11	27.40	21	20.23.53	1. 15	47	9. 51	17	1. 23	3 12	21.33
2	12	24.45	7	17. 7	11	28.22	21	21.21. 4	2. 28	49	11.57	6	16 9	4 5	20.42
3	13	24.47	7	17.12	12	29. 3	22	22.18.15	3. 42	51	14. 4	4 S	♑ 1. 11	4 43	19.46
4	14	24.50	8	17.17	12	29 44	23	23.15.25	4. 55	53	16.12	15	16.18	5 1	18.59
5 ⊙	15	24.52	8	17.21	12	♈ 0. 25	24	24.12.34	6. 9	55	18.21	25	♒ 1. 20	D 4 57	18.31
6	16	24.54	8	17.25	12	1. 6	24	25.9. 42	7. 23	57	20.32	36	16 9	4 35	18.27
7	17	24.56	8	17.29	13	1. 47	25	26.6. 50	8. 36	59	22.46	45	♓ 0. 37	3 54	18.46
8	18	24.58	9	17.33	13	2. 28	26	27.3. 57	9. 50	1 I	25. 1	53	14.41	3 1	19.20
9	19	25. 0	9	17.37	13	3. 8	27	28.1. 4	11. 3	3	27.17	I 2	28.21	1 58	20. 1
10	20	25. 1	9	17.41	14	3. 49	28	28.58.11	12.17	4	29.35	11	♈ 11.40	0 50	20.41
11	21	25. 3	10	17.44	14	4. 29	28	29.55.18	13.30	6	♋ 1. 52	20	24.39	0 18	21.13
12 ⊙	22	25. 4	10	17.47	14	5. 9	29	♋ 0. 52.25	14.44	8	4. 4	25	♉ 7. 23	M 1 24	21.32
13	23	25. 6	10	17.50	15	5. 49	30	1. 48.32	15.57	9	6. 13	30	19.55	2 25	21.34
14	24	25. 7	10	17.53	15	6. 29	31	2. 46.39	17.11	11	8. 21	35	♊ 2. 18	3 19	21.19
15	25	25. 8	11	17.55	15	7. 9	31	3. 43.45	18.24	13	10.27	39	14.32	4 1	20.49
16	26	25. 9	11	17.57	15	7. 49	32	4. 40.51	19.38	14	12.31	44	26 40	4 34	20. 9
17	27	25.10	11	17.59	16	8. 29	33	5. 37.57	20.51	16	14.34	46	♋ 8 43	4 54	19.24
18	28	25.11	11	18. 1	16	9. 8	34	6. 35. 3	22. 5	17	16.36	47	20.41	4 59	18.41
19 ⊙	29	25.12	12	18. 2	16	9. 47	34	7. 32. 9	23.18	18	18.37	48	♌ 2. 35	D 4 52	18. 6
20	30	25.13	12	18. 4	17	10.26	35	8. 29.15	24.32	19	20.37	49	14.28	4 32	17.44
21	Iul. 1	25.13	12	18. 6	17	11. 5	36	9. 26.21	25.45	21	22.35	D. 50	26.21	4 1	17.37
22	2	25.14	13	18. 6	17	11.44	37	10.23.27	26.59	22	24.30	48	♍ 8. 18	3 19	17.45
23	3	25.14	13	18. 7	18	12 23	37	11.20.34	28.12	23	26.23	46	20.22	2 27	18. 6
24	4	25.14 --Ker.--	13	18. [illegible]	[illegible]	[illegible]	38	12.17.41	29 26	24	28.14	44	♎ 2. 38	1 28	18.37
25	5	25.14	13	18. 8	18	13.39	39	13.14.48	♌ 0. 39	25	♌ 0. 3	42	15.12	0 23	19.16
6 ⊙	6	25.14	14	18. 9	18	14.17	40	14.11.55	1. 52	26	1. 49	40	28. 7	S 0 44	19.55
27	7	25.14	14	18. 9 -Retr-	19	14.55	40	15.9. 2	3. 5	27	3. 33	35	♏ 11.28	1 52	20.20
28	8	25.14	14	18 9	19	15.33	41	16.6. 10	4. 19	28	5. 16	30	25.19	2 56	20.44
29	9	25.13	14	18. 8	19	16.10	42	17.3. 19	5. 32	29	6. 58	25	♐ 9. 39	3 49	20.40
30	10	25.13	15	18. 8	20	16.47	43	18.0. 28	6. 46	29	8. 39	20	24.25	4 32	20.13

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ orien	♃ oriét.	♂ Oriét.	☉	♀ Occid	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Jun. 2 Marcellus	□14.	□1.	□ 20.	☍8.58		☍17.	Q♂☿	11 Jun. 12
3 Erasmus 4	⚹13.	⚹1.	⚹ 22.		☍4.		(☽ Perig. □♃☿12 Td♃♀(	13 Cyrillus 14
5 *B. Trinit.* 6				△16		△8.	□☉♄17	15 *E Trinit.* 16 Roland.
7 8 Medardus	☌18	☌5		□23.22	△15	□ 22	□♄☿23.	17 8
9 10			☌9		□1	Occi.	☌☉☿13 Td♄♀☽☋	19 Gervas. 20
11 Barnabas 12 *B.1 p Tr.*		⚹20		⚹11	⚹15.	⚹16.	□♂☿17. Td♃☿	21 Albanus 22 *E.1.p.Tr.*
13 Cyrillus 14	⚹10		⚹9				△♃♀14	23 Basilius 24 Jo.Bapt.
15 Vitus 16 Roland.	□21	□7	□ 23.	☌17.20			Td♄☿	25 26
17 18	△9	△18.			☌3	☌14	Td☉♃ △♃☿17. ☽ Apo.	27 7. dorm. 28 Leo
19 *B.2 p. Tr.* 20			△ 15.				△♄♀13.	29 *E.2.p.Tr.* 30
21 Albanus 22 Achatius		☍ 9		⚹4.			△♄☿9.	1 Julij 2 Visit.Mar.
23 24 Jo.Bapt	☍2.		☍19.	□19.58	⚹17	⚹14		3 Cornelius 4 Ulricus
25 26 *B.3 p. Tr.*					□7.	□8	Td☉♄ ☽♌ □☉♂6 ☌♀☿2.(	5 Anshelm. 6 *E.3.p Tr.*
27 7. dorm. 28 Leo	△0	△11		△7. [illegible]	△16.	△19	(Td.♂♀ Td♂☿ [illegible]	7 Demetrius 8 Chilianus
29 Petr.P. 30	□1	□14	△11				[illegible] △☉♃3	9 10 7. fratr.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	Lat	☽ Longit.	Latit.	☊ Longit
		♓	M. A 2	♓	M. A I	♈	M A Z	♋	♌	S A I	♌	S D I	♑	S A	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M.	G. M.	G. M.
1	11	25.12	15	18. 7	20	17.24	44	18.57.37	7. 59	30	10.18	15	9. 32	4 59	19.26
2	12	25.12	15	18. 6	20	18. 1	44	19.54.46	9. 13	30	11.54	8	24.49 ♒	4 54 D	18.29
3 ☉	13	25.11	15	18. 5	21	18.38	44	20.51.55	10.26	31	13.28	10	10. 5	4 38	17.37
4	14	25.11	16	18. 4	21	19.15	45	21.49. 5	11.40	31	15. 0	54	25.10 ♓	4 0	17. 3
5	15	25.10	16	18. 2	21	19.52	45	22.46.15	12.53	31	16.30	46	9 53	3 6	16.52
6.	16	25. 9	16	18. 0	21	20.28	45	23.43.26	14. 6	31	17.57	39	24 10 ♈	2 2	17. 5
7	17	25. 8	16	17.58	22	21. 4	46	24.40.37	15.20	32	19.23	30	7. 59	0 59	17.34
8	18	25. 7	17	17.56	22	21.40	46	25.37.48	16.33	32	20 47	21	21.21 ♉	0 17 M	18.13
9	19	25. 6	17	17.54	22	22.16	46	26.35. 0	17.47	32	22. 9	12	4 19	1 24	18.53
10 ☉	20	25. 5	17	17.52	22	22.52	47	27.32.14	19. 0	32	23.29	3 M	16.58	2 25	19.27
11	21	25. 4	17	17.49	23	23.28	47	28.29.29	20.13	33 D	24.47	6	29 21 ♊	3 19	19.51
12	22	25. 2	18	17.46	23	24. 3	48	29.26.44 ♌	21.26	32	26. 3	17	11.33	4 2	20. 1
13	23	25. 0	18	17.43	23	24.38	48	0. 24. 0	22.39	32	27.16	27	23 38 ♋	4 32	19.55
14	24	24.58	18	17.40	23	25.12	48	1. 21.16	23.52	32	28.26	38	5. 37	4 53	19.34
15	25	24.56	18	17.36	24	25.46	49	2. 18.33	25. 5	32	29.33 ♍	49	17.33	5 0 D	19. 0
16	26	24.54	19	17.33	24	26.20	49	3. 15.51	26.18	31	0. 38	59	29.28 ♌	4 53	18.18
17 ☉	27	24.52	19	17.29	24	26.54	49	4. 13.10	27.31	31	1. 41	11	11 23	4 34	17.33
18	28	24.50	19	17.25	25	27.27	50	5. 10.30	28.44	30	2. 41	22	39.19 ♍	4 2	16.53
19	29	24 48	19	17.21	25	28. 0	50	6. 7. 51	29 57 ♍	29	3. 39	33	5. 17	3 20	16.22
20	30	24.46	20	17.17	25	28.33	50	7. 5. 13	1. 10	29	4. 34	45	17.20	2 28	16. 5
21	31 Au.	24.43	20	17.12	25	29. 5	51	8. 2. 37	2. 24	28	5. 25	56 Z	29 30 ♎	1 29	16. 4
22	1	24.41	20	17. 8	26	29.37 ♉	51	9. 0. 2	3. 37	27	6. 15	8	11.51	0 25 S	16.19
23	2	24.38	20	17. 3	26	0. 9	52	9. 57.27	4. 50	26	7. 3	19	24 26 ♏	0 41	16.48
24 ☉	3	24.36	21	16.58	26	0. 40	52	10.54.55	6. 3	25	7. 46	31	7. 19	1 48	17.25
25	4	24.33	21	16.53	26	1. 11	52	11.52.23	7. 16	24	8. 22	43	20 34 ♐	2 50	18. 5
26	5	24.30	21	16.48	27	1. 42	53	12.49.50	8. 29	23	8. 50	54 3-	4. 16	3 45	18.42
27	6	24.27	21	16.43	27	2. 12	53	13.47.19	9. 42	22	9. 12	5	18.25 ♑	4 28	19. 6
28	7	24.24	22	16.38	27	2. 42	53	14.44.50	10.55	20	9. 32	16	3. 0	4 54	19.11
29	8	24.21	22	16.32	27	3. 12	54	15.42.23	12. 8	19	9. 50	27	17.58 ♒	5 2 D	18.51
30	9	24.18	22	16.27	28	3. 41	54	16.39.57	13.21	18	10. 7	37	3. 10	4 49	18. 9
31 ☉	10	24.14	23	16.21	28	4. 10	55	17.37.32	14 34	16	10.23	48	18.25	4 16	17.13

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Oriét.	♂ Orien.	☉	♀ Occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Julij		⚹13.	□12.	☍15.48			(☽ Perig.	11 Jul.
2 Visit.Mar.	⚹ 1						SS ♃♂ Bq ♃☿ (	12 Henricus
3 *B.4.p Tr.*			⚹ 14		☍1	☍6		13 *E.4 p.Tr.*
4 Cornelius							Bq ♃♀	14
5 Vlricus		☌13.		△ 23				15 Divis.Ap.
6	☌ 2						Vc.♃☿	16
7					△14.	△23	△☉♄11 Bq♄☿(	17
8 Chilian.			☌ 0.	□8.33			(☽☋	18
9 Cyrillus							Vc.♃♀△♂☿4	19
10 *B.5.p.Tr.*	⚹16	⚹2		⚹22	□ 4.	□ 14	Bq ♄♀	20 *E.5.p.Tr.*
11 Pius							Vc.♄☿	21
12 Henricus		□ 12			⚹22			22 Mar. M.
13 Margareta	□ 3		⚹2			⚹ 8	SS ♄♂	23
14							Vc.♄♀	24 Christin.
15 Divis Ap.	△15	△ 0	□ 17.					25 Jacobus
16				☌ 8.19			△♂♀1 ☽Apog.	26 Anna
17 *B.6 p.Tr.*								27 *E.6.p.Tr.*
18			△ 8.		☌ 12.	☌ 20.		28 Panthal.
19							☿Elong. Max. (	29 Beatrix
20 Elias	☍14.	☍ 0					(à ☉e.	30
21				⚹ 18				31 German.
22 Mar.M.							☽☊	1 Aug. Vi P.
23			☍ 11		⚹ 21.			2
24 *B 7 p.Tr*		△16		□7.1		⚹1	Bq ☉♃	3 *E.7.p.Tr.*
25 Jacobus	△ 7			△15.				4 Aristarch.
26 Anna		□21			□ 8	□8	☌♀☿10	5 Osvvaldus
27 Martha	□ 10		△ 23.					6
28 Panthal		⚹ 22			△ 11	△ 11		7
29 Beatrix	□10						Vc.☉♃	8
30			□ 1	☍22.39				9
31 *B.8.p Tr.*							Bq☉♄ ☽Perig.	10 *E.8.p Tr.*

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit.	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit	☿ Lat	☽ Longit.	☽ Latit.	☊ Longit
		♓	M. A Z	♓	M. A I	♉	M A 2	♌	♍	S D I	♍	M A 3	♓	S D	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G M.	G. M.	G. M.
1	11	24.11	23	16.15	28	4. 39	55 D	18.35. 9	15.47	15	10.38	59	3. 33	3 24	16.19
2	12	24. 8	23	16. 8	28	5. 7	55	19.32.47	16.59	13	10 47 Retr.	4 6	18 23	2 19	15.38
3	13	24. 5	23	16. 2	29	5. 35	53	20.30.26	18.12	11	10 43	13	—♈— 2. 49	1 8	15.20
4	14	24. 2	23	15.55	29	6. 3	51	21.28. 7	19.24	9	10.30	21	16 48	0 7	15.24
5	15	23.58	33	15.49	29	6. 30	49	22.25.48	20.37	7	10. 7	28	—♉— 0. 16	—M— 1 18	15.47
6.	16	23.55	23	15.42	29	6. 57	48	23.23.30	21.49	6	9. 39	35	13.22	2 24	16.21
7 ☉	17	23.51	23	15.35	29	7. 24	46	24.21.14	23. 2	4	9. 9	36	26. 2	3 20	16.59
8	18	23.48	24	15.28	29	7. 50	44	25.19. 0	24.15	2	8. 34	37	♊ 8. 26	4 6	17.37
9	19	23.44	24	15.21	29	8. 16	42	26.16.48	25.27	0	7. 55	37	20 33	4 38	18. 5
10	20	23.40	24	15.14	29	8. 41	40	27.14.36	26.40	O 58	7. 11	38	♋ 2. 33	4 58	18.23
11	21	23.36	24	15. 7	30	9. 6	38	28.12.26	27.53	56	6. 24	D 39	14.27	5 7 D	18.26
12	22	23.32	24	15. 0	30	9. 31	37	29 10.18	29 5	53	5. 34	31	26.19	5 1	18.15
13	23	23.28	24	14.53	30	9. 55	35	—♍— 0. 8. 12	♎ 0. 18	51	4. 41	22	—♌— 8. 13	4 41	17.50
14 ☉	24	23.24	24	14.45	30	10.19	33	1. 6. 8	1. 31	48	3. 45	14	20 10	4 11	17.12
15	25	23.20	25	14 38	30	10.43	32	2. 4. 6	2. 43	46	2. 47	6	—♍— 2. 11	3 29	16.28
16	26	23.16	25	14.30	30	11. 6	30	3. 2. 6	3. 56	43	1. 48	3 57	14.19	2 36	15 43
17	27	23.12	25	14.23	30	11.29	29	4. 0. 7	5. 8	40	0. 52	41	26 32	1 37	15. 5
18	28	23. 7	25	14.15	30	11 51	27	4. 58. 9	6. 21	38	0. 0	25	♎ 8. 45	0 31	14.39
19	29	23. 3	25	14. 7	31	12.12	25	5. 56.13	7. 33	35	—♌— 29.14	8	21.28	—S.— 0 37	14.29
20	30	22.59	25	14. 0	31	12.32	24	6. 54 19	8. 46	33	28.35	Z 52	♏ 4. 13	1 44	14 37
21 ☉	31	22.54	25	13.52	31	12,52	22	7. 52.27	9. 58	30	28. 3	36	17.11	2 47	14.59
22	Sep 1	22.50	25	13.44	31	13.11	20	8. 50.36	11.11	28	27.38	17	♐ 0. 29	3 44	15.36
23	2	22.45	26	13.36	31	13.30	19	9. 48.47	12.23	25	27.20	1 58	14. 5	4 29	16.18
24	3	22.41	26	13.28	31	13.49	17	10.47. 0	13.36	23	27. 9	39	28. 3	4 59	16.58
25	4	22.36	26	13.20	31	14. 7	16	11.45.15	14.48	20	27. 5 Dir.	20	—♑— 12.22	5 11 D	17.28
26	5	22.32	26	13.12	31	14.24	14	12.43.31	16. 1	18	27. 6	1	27. 0	5 4	17.39
27	6	23.27	26	13. 4	32	14.40	12	13.41.50	17.13	15	27.21	O- 45	—♒— 11.53	4 36	17.26
28 ☉	7	22.22	26	12.56	32	14.55	11	14.40.11	18.25	13	27.46	28	26 52	3 50	16.5[illegible]
29	8	22.18	26	12.48	32	15. 9	9	15.38.34	19.37	10	28.22	12	—♓— 11.48	2 48	15.59
30	9	22.13	27	12.41	32	15.21	8	16.36.58	20.49	8	29. 2	4	26.32	1 36	15. 3
31	10	22. 8	27	12.33	32	15.32	6	17.35.24	22. 1	5	29.48	S.- 20	—♈— 10.58	0 18	14.18

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ Oriét.	♂ oriét.	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Aug. 2	 ☌ 9.	☌ 20.	✶ 2		☍ 20	☍ 11.	☍♃♀ 8.	11 Aug. 12 Clara
3 Dominic. 4 Ariſtarch.				△ 9			☽☋	13 Hippolytus 14
5 Oſvvald. 6 Sixtus	 ✶ 20	 ✶ 4.	☌ 12	 □ 20. 33	 △ 18	△ 17.	 Vc. ☉♄	15 Adſum. M. 16 Rochus
7 *B.9.p.Tr.* 8		 □ 14				 □ 0	☍♄♀ 15.	17 *E.9.p.Tr.* 18 Helena
9 10 Laurent.	□ 6.		 ✶ 13	✶ 12.	□ 1	 ✶ 9	Td ☉♂	19 Sebaldus 20 Bernhard.
11 12 Clara	△ 18.	△ 1.			 ✶ 6		 SS ☉♀	21 Athanaſ. 22
13 14 *B.10.p.Tr.*			□ 3.	 ☌ 23. 45			☽ Apog.	23 Zachæus 24 *E.10.p.Tr.*
15 Adſu. M. 16 Rochus	 ☍ 17.	 ☍ 0.	△ 17.			☌ 1 oriét.	SS ♀☿ 0 ☌☉☿ 9	25 Ludovicus 26
17 18 Helena							Bq ♂♀ ☽☊	27 Gebhard. 28 Auguſtin.
19 Sebaldus 20 Bernh.		 △ 18	 ☍ 16	 ✶ 5.		✶ 13		29 Decoll. Jo 30
21 *B.11.p.Tr.* 22	△ 10	 □ 23		 □ 15. 54	 ✶ 21	□ 19		31 *E.11.p.Tr.* 1 Sept.
23 Zachæus 24 Barthol.	□ 15			 △ 23		△ 22	✶♃♂ 5. Vc ♃♀ Vc ♂♀	2 3 Euphem.
25 Ludovic. 26	✶ 17	✶ 1. occid	△ 3		□ 4.		 ☍☉♃ 10	4 5
27 Gebhar. 28 *B.12.p.Tr.*			□ 4.		△ 9	 ☍ 1.	☽ Perig. △☉♂ 8 Bq ♃♀	6 Magnus 7 *E.12.p.Tr.*
29 Decol. Jo. 30	☌ 17	☌ 1.	✶ 5.	☍ 6. 43				8 Nativ. Mar. 9
					☍ 21		Vc ♄♀ ☽♈	10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♓	M A Z	♓	M A I	♉	M D Z	[illegible]	♎	S D O	♍	S A O	♈	M A	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	22. 3	27	12.25	32	15.42	4	18.33.54	23.13	3	0. 41	36	24.59 ♉	0 58	13.52
2	12	21.58	27	12.17	32 -D-	15.52	4	19.32.25	24.25	1 M-	1. 50	47	8. 35	2 9	13.4
3	13	21.53	27	12. 9	32	16. 2	4	20.30.59	25.37	5	3. 4	57 1	21.47 ♊	3 11	13.5
4 ☉	14	21.49	27	12. 1	32	16.12	4	21.29.34	26.49	9	4. 23	7	4 31	4 2	14.2
5	15	21.44	27	11.54	32	16.22	3	22.28.11	28. 1	13	5. 46	18	16.58	4 40	15. 1
6	16	21.39	27	11.46	32	16.32	3	23.26.50	29.13 ♏	17	7. 13	28	29 6 ♋	5 4	15.3
7	17	21.34	27	11.38	32	16.37	3	24.25.31	0. 24	20	8. 45	32	11. 5	5 15 D	16.11
8	18	21.29	27	11.31	32	16.43	3	25.24.14	1. 36	24	10.21	37	22.57 ♌	5 12	16.3
9	19	21.25	27	11.23	31	16.49	2	26.22.59	2. 48	28	11.59	41	4. 47	4 55	16.
10	20	21.20	27	11.16	31	16.55	2	27.21.46	3. 59	32	13.41	45	16.40	4 26	16.
11 ☾	21	21.15	27	11. 9	31	17. 1	2	28.20.34	5. 11	36	15.25	49	28.38 ♍	3 45	16.3
12	22	21.10	27	11. 2	31	17. 5	2	29.19.25 ♎	6. 22	39	17.11	49 -D-	10.45	2 54	16.
13	23	21. 5	27	10.55	31	17. 8	1	0. 18.19	7. 34	43	18.58	49	23. 3 ♎	1 54	15.
14	24	21. 1	27	10.48	31	17. 8	1	1. 17.15	8. 45	46	20.46	49	5. 31	0 48	14.
15	25	20.56	27	10.41	31	Retr. 17. 8	1 0	2. 16.14	9. 57	50	22.34	48	18.12 ♏	0 22 S	13.
16	26	20.51	27	10.34	31	17. 8	-1-	3. 15.15	11. 8	53	24.22	48	1. 4	1 32	13.1
17	27	20.47	27	10.27	31	17. 7	59	4. 14.17	12.19	57 1	26.10	45	14.11	2 38	12.
18 ☉	28	20.42	27	10.20	31	17. 5	59	5. 13.21	13.31	1	27.58	42	27.29 ♐	3 37	12.
19	29	20.38	27	10.13	31	17. 2	59	6. 12.27	14.42	4	29.47 ♎	38	10.58	4 25	13.1
20	30	20.34	27	10. 7	31	16.59	58	7. 11.35	15.53	8	1. 36	35	24.39 ♑	4 59	13.
21	Oct. 1	20.30	26	10. 1	30	16.54	58	8. 10.45	17. 5	11	3. 24	32	8. 33	5 16 D	14.
22	2	20.25	26	9. 55	30	16.48	58	9. 9. 57	18.16	14	5. 11	27	22.39 ♒	5 14	15.1
23	3	20.21	26	9. 49	30	16.41	58	10.9. 12	19.27	17	6. 58	21	6. 59	4 53	15.
24	4	20.17	26	9. 43	30	16.34	57	11.8. -31	20.38	21	8. 44	16	21.25 ♓	4 13	16.
25 ☉	5	20.13	26	9. 38	30	16.26	57	12.7. 52	21.49	24	10.30	11	5. 58	3 16	16.
26	6	20. 9	26	9. 32	30	16.17	57	13.7. 15	28. 0	27	12.15	6	20.28 ♈	2 8	15.
27	7	20. 5	26	9. 27	30	16. 6	57	14.6. 39	24.11	30	13.59	0	4. 53	0 52 M	14.
28	8	20. 1	26 -D-	9. 22	30	15.55	56	15.6. 5	25.22	33	15.42	0 54	19. 4 ♉	0 26	13
29	9	19.57	26	9. 17	30	15.43	56	16.5. 34	26.32	36	17.25	48	2. 59	1 42	13.
30	10	19.54	26	9. 12	30	15.31	56	17.5. 5	27.43	39	19. 7	41	16.32	2 49	12.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ Occid	♂ oriét.	☉	♀ occid	☿ oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Septemb.						△ 11	☿ in max. distát.	11 Sept.
2		✱ 7	☌ 13.	△ 21.			(à ☉ e.	12 Tobias
3	✱ 0						Bq ♄♀	13
4 *B. 13. p. Tr.*	occid	□ 14				□ 0	☍ ☉♄ 7	14 *E. 13. p. Tr.*
5	□ 9.			□ 11. 51				15
6 Magnus					△ 0	✱ 18.		16
7 Regina	△ 21	△ 1	✱ 11					17 Lambertus
8 Nativ. M.				✱ 5.	□ 15.		☍ ♃☿ 16	18
9								19
10			□ 0.				☽ Apog.	20 Fausta
11 *B. 14. p. Tr.*					✱ 14		△ ♂☿ 22	21 *E. 14. p. Tr.*
12 Tobias	☍ 20	☍ 0.	△ 12.			☌ 15		22 Mauritius
13				☌ 15. 20			Eclips. ☉	23
14 Exalt. ✠							☍ ♄☿ 3 ☽☊	24 Rupertus
15							△ ♃♀ 13.	25
16		△ 17			☌ 20			26 Cyprian.
17 Lamber.	△ 12		☍ 5					27
18 *B. 15. p. Tr.*		□ 23		✱ 15		✱ 1		28 *E. 15. p. Tr*
19	□ 17							29 Michaël
20 Fausta				□ 23. 16		□ 14	☍ ♂♀ 20.	30 Hieron.
21 Matthæus		✱ 2.	△ 14		✱ 16			1 Octob.
22 Mauritius							Vc. ☉♃ (☽ Perig.	2 Leodegar.
23	✱ 22		□ 16	△ 17.	□ 22	△ 0	△ ♄♀ 17 Bq ☉♂ (	3
24 Rupert.							Vc ♃☿ Td ♃♀	4 Francisc.
25 *B. 6. p. Tr.*	☌ 23.	☌ 6	✱ 7				Bq ♂☿ 0	5 *E. 16. p. Tr.*
26 Cyprian.					△ 4.		(Ecl. ☽	6 Aurelia
27				☍ 16. 42		☍ 17.	☌ ☉☿ 4. Bq ♃☿ (	7
28 VVenc.						Occi.	Vc ☉♂ Vc ♂☿ (	8
29 Michaël		✱ 11	☌ 22				(Bq ☉♃	9 Dionysius
30 Hieron.	✱ 6				☍ 22		Vc. ♄☿	10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Long.
		♓	M. D Z	♓	M. D I	♉	M D I	♎	♏	M A I	♎	S D D	♉	M A	♎
		G. M		G. M.		G. M		G. M. S.	G. M.		G. M		G M	G. M	G. M
1	11	19.50	26	9. 8	30	15.19	55	18.4. 39	28 53	42	20.48	35	29 44	3 46	12.1
2 ☉	12	19.46	26	9. 3	29	15. 6	52	19.4. 14	♐ 0. 3	44	22.29	29	♊ 12 34	4 29	12.1
3	13	19.42	26	8. 59	29	14.52	48	20.3. 51	1. 14	46	24. 9	22	25 2	4 59	12.3
4	14	19.39	26	8. 55	29	14.38	44	21.3. 30	2. 2[illegible]	46	25.48	15	♋ 7. 14	5 14	13.1
5	15	19.35	26	8. 51	29	14.23	41	22.3. 12	3. 35	50	27.26	9	19 13	5 16 D	13.3
6.	16	19.32	26	8. 47	29	14. 7	37	23.2. 56	4. 45	52	29 4	2 M	♌ 1. 5	5 4	14.1
7	17	19.28	25	8. 44	28	13.50	33	24.2. 42	5. 55	54	♏ 0 41	5	12.53	4 38	14.4
8	18	19.25	25	8. 41	28	13.31	30	25.2. 30	7. 6	56	2. 18	11	24 45	3 59	15.
9 ☉	19	19.21	25	8. 38	28	13.11	26	26.2. 20	8. 16	58 Z	3. 54	18	♍ 6 44	3 14	15.1
10	20	19.18	25	8. 35	28	12.50	22	27.2. 12	9. 26	0	5. 30	25	18 54	2 15	15.1
11	21	19.15	25	8. 32	28	12.30	19	28.2. 5	10.36	2	7. 5	31	♎ 1. 19	1 12	14.
12	22	19.12	25	8. 30	27	12.10	15	29 2. 2	11.47	6	8. 39	38	14. 0	0 2	14.1
13	23	19. 5	25	8. 28	27	11.49	11	♏ 0. 2. 1	12.58	9	10.13	44	26 59	S. 1 9	13.
14	24	19. 6	24	8. 26	27	11 28	8	1. 2. 3	14. 9	13	11.46	51	♏ 10 15	2 18	12.4
15	25	19. 3	2[illegible]	8. 24	27	11. 7	4	2. 2. 7	15.20	16	13.19	57 I	23 47	3 20	11.
16 ☉	26	19. 0	24	8. 22	26	10.46	0 O	3. 2. 12	16.31	19	14.51	4	♐ 7. 32	4 12	11.3
17	27	18.58	24	8. 20	26	10.25	56	4. 2. 19	17.42	23	16.23	10	21 27	4 49	11.2
18	28	18.55	24	8. 19	26	10. 4	53	5. 2. 28	18.53	26	17.55	15	♑ 5. 28	5 11	11.3
19	29	18.53	24	8. 18	26	9. 43	49	6. 2. 39	20. 4	30	19.26	21	19 32	5 13 D	12.
20	30	18.51	24	8. 17	26	9. 22	45	7. 2. 52	21.15	33	20.56	27	♒ 3 38	4 57	12.4
21	31	18.49	23	8. 16	25	9. 1	42	8. 3. 7	22.26	37	22.26	33	17 44	4 23	13.
22	N. 1	13.47	23	8. 16	25	8. 40	38	9. 3. 24	23.36	38	23.56	38	♓ 1. 51	3 32	14.
23 ☉	2	18.45	23	8. 15	25	8. 19	34	10.3. 43	24.45	39	25.25	44	15.56	2 29	14.
24	3	18.43	23	8. 15	25	7. 58	31	11.4. 4	25.53	40	26.53	49	29.57	1 19	14.
25	4	18.41	23	Dir. 8. 15	25	7. 37	27	12.4. 26	27. 0	41	28.21	54	♈ 13 53	0 2 M	14.1
26	5	18.39	23	8. 15	24	7. 17	23	13.4. 50	28. 6	42	29.48	59 Z	27 41	1 13	13.
27	6	18.37	23	8. 16	24	6. 57	20	14.5. 16	29 12	43	♐ 1. 15	3	♉ 11.16	2 22	12.
28	7	18.35	22	8. 16	24	6. 37	16	15.5. 44	♑ 0. 18	45	2. 41	7	24 37	3 23	11.
29	8	18.34	22	8. 17	24	6. 17	12	16.6. 14	1. 24	46	4. 7	10	♊ 7. 41	4 10	11.1
30 ☾	9	18 32	22	8. 18	24	5. 58	9	17.6. 46	2. 30	47	5. 32	14	20.27	4 45	10.
31	10	18.31	22	8. 19	23	5. 39	5	18.7. 19	3. 36	48	6. 5[illegible]	18	♋ 2. 56	5 5	10.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid	♃ Occid	♂ Orien.	☉	♀ occid.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo
1 Octob.		□17.						1 Octob.
2 B.17.p.Tr.	□14			△13.		△22	Vc ☉♄.	1:E 17.p.Tr.
3							Td ♄♀ Bq♄☿	13 Tileman
4 Francisc.		△3.	✱16					14 Calixtus
5 Fides	△1			□6.15		□19		15 Hedvvig
6					△8			16
7 Spes			□2				☽ Apog.	17
8				✱0.		✱17.	Bq ☉♄	18 Lucas
9 B.18.p.Tr.		☍4	△13.		□3.		□♃♀7	19 E.18.p.Tr.
10 Gedeon	☍1							20 VVend.
11 Burchar.					✱19.		△♃☿22	21 Ursula
12							☽☊	22
13 Tileman.		△1		☌5.58			☍♂☿20	23
14 Calixtus	△15.		☍2			☌3		24 Salome
15 Hedvvig.								25 Crispin,
16 B.19.p.Tr	□20	□1.			☌7		Bq ♂♀	26 E 19.p.Tr
17				✱23				27
18 Lucas	✱23	✱5	△7.				□♄♀0. △♄☿15.	28 Sim Jud.
19						✱0	Td ♃☿	29
20 VVend			□9	□6.16				30
21 Ursula			Occid.		✱9	□9	△☉♃5 ☍☉♂17(	31 Wolffg.
22		☌11	✱11	△13			(SS♀☿☌) ☽Perig.	1 Nov.
23 B 20 p T.	☌5				□16.	△18	✱♃♂4.	2 E..o.p Tr.
24 Salome							Q♃♀	3 Theophil.
25 Crispin.							☽☋	4
26 Amand		✱19	☌16.		△1	☍4	Td ♄☿	5
27	✱3			☍5.18				6 Leonhar.
28 Sim.Jud.								7
29	□20.	□1						8
30 B.21.p.Tr.								9 E.21.d.Tr.
31 VVolffg.		△.0.	✱5		☍1.		△☉♄9.	10 Mart.P

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♓	M D Z	♓	M D I	♉	M D O	♏	♑	M A Z	♐	M A Z	♋	M A	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	18.30	22	8. 21	23	5. 21	4	19.7. 54	4. 41	49	8. 19	22	15. 9	5 11 D	10.42
2	12	18.29	22	8. 23	23	5. 3	2	20. 8.32	5. 48	49	9. 41	23	27. 9	5 2	11. 2
3	13	18.28	21	8. 25	23	4. 46	1 S	21. 9.12	6. 55	49	11. 2	25	♌ 9 1	4 42	11.3[illegible]
4	14	18.27	21	8. 27	22	4. 30	1	22. 9.54	8. 2	50	12.22	27	20 49	4 8	12. [illegible]
5	15	18.26	21	8. 29	22	4. 15	3	23.10.37	9. 9	50	13.41	29	♍ 2 39	3 24	12.4[illegible]
6 ☉	16	18.26	21	8. 32	22	4. 0	4	24.11.21	10.15	50	14.59	31	14.36	2 32	13.11
7	17	18.25	21	8. 35	22	3. 46	6	25.12. 6	11.22	50	16.16	30	26.45	1 31	13.34
8	18	18.25	20	8. 38	21	3. 33	8	26.12.52	12.28	50	17.31	29	♎ 9 13	0. 25	13.44
9	19	18.25	20	8. 41	21	3. 21	9	27.13.40	13.35	50	18.43	29	21 59	S 0 44	13.3[illegible]
10	20	18 24	20	8. 45	21	3. 9	11	28.14.29	14.41	50	19.52	28	♏ 5 10	1 52	13.1[illegible]
11	21	18.24	20	8. 48	21	2. 57	13	29.15.20	15.47	50	20.58	27	18 44	2 57	12.2[illegible]
12	22	18 24	20	8. 52	21	2. 46	15	♐ 0. 16.13	16.53	49	22. 2	22	♐ 2. 39	3 52	11.3[illegible]
13 ☉	23	18.24	19	8. 56	20	2. 36	16	1. 17. 7	17.59	48	23. 4	18	16 53	4 34	10.4[illegible]
14	24	18.24	19	9. 0	20	2. 28	18	2. 18. 3	19. 4	47	24. 0	13	♑ 1. 17	4 59	10. [illegible]
15	25	18.24	19	9. 5	20	2. 20	20	3. 19. 0	20. 9	45	24.52	8	15.47	5 5 D	9. 4[illegible]
16	26	18.25	19	9. 9	20	2. 13	21	4. 20. 0	21.14	44	25.38	3 1	♒ 0. 15	4 53	9. 5[illegible]
17	27	18.26	18	9. 14	19	2. 7	23	5. 21. 1	22.19	43	26.19	58	14.35	4 24	10.20
18	28	18.27	18	9. 19	19	2. 2	25	6. 22. 2	23.23	42	26.54	53	28.46	3 34	10.58
19	29	18.28	18	9. 24	19	1. 58	27	7. 23. 4	24.27	40	27.23	48	♓ 12 46	2 34	11.41
20 ☉	30	18.29	18	9. 29	19	1. 55	28	8. 24. 6	25.30	39	27.45	43	26.34	1 27	12.19
21	De. 1	18.30	18	9. 35	19	1. 53	30	9. 25. 9	26.33	38	27.54 Retr.	38	♈ 10 13	0 15 M	12.48
22	2	18.31	18	9. 40	18	1. 49	32	10.26.14	27.36	33	27.52	20	23 43	0 57	12.59
23	3	18.32	17	9. 46	18	1. 47 Dir.	33	11.27.21	28.39	28	27.43	3 0	♉ 7. 3	2 4	12.5[illegible]
24	4	18.34	17	9. 52	18	1. 47	35	12.28.30	29 41	23	27.22	45	20.14	3 4	12.2[illegible]
25	5	18.36	17	9. 58	18	1. 49	37	13.29.40	♒ 0. 43	18	26.50	28	♊ 3. 14	3 54	11.4[illegible]
26	6	18.37	17	10. 5	17	1. 52	39	14.30.50	1. 45	14	26. 8	10	16. 3	4 31	10.5[illegible]
27 ☉	7	18.39	16	10.11	17	1. 55	40	15.32. 0	2. 46	9	25.13	14	28.39	4 52	10. [illegible]
28	8	18.40	16	10.18	17	1. 59	42	16.33.10	3. 47	4	24. 7	38	♋ 11. 2	5 2	9. 3[illegible]
29	9	18.42	16	10.24	17	2. 3	44	17.34.21	4. 48	59	22.50	3	23.12	D 4 55	9. 1[illegible]
30	10	18.44	16	10.31	16	2. 8	45	18.35.32	5. 48	54	21.22	27	♌ 5. 11	4 37	9. [illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Occi.	♂ occid	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Nov.	△7			△9			□♃☿0. △♂♀ 11	11 Nov.
2 O. Anim.			□15.				Q♄♀ ☽Apog.	12
3 Theophil.						△4.	Td☉♃	13
4 Modestin.				□3.0			✱♃♀9	14 Frideric.
5		☍10	△3		△ 14.			15 Leopold.
6 *B.22.p.Tr.*	☍7.			✱ 20.		□1		16 *E.22.p Tr.*
7								17 Hugo
8					□7	✱17	□♄☿18 ☽☊	18
9 Theodor.			☍20.					19 Elisabet
10	△ 23.	△ 6.			✱18		Td♂♀	20
11 Martinus				☌19 34				21 Obl.M.
12		□ 10.					Td☉♄ (maxim.	22
13 *B.13.p.Tr.*	□2.					☌11	✱♄♀9 ☿Elon. (	23 *E.23 p.Tr,*
14		✱13	△2				Vc☉♂	24
15 Leopold.	✱4.				☌8			25 Catharina
16 Otmarus			□ 3	✱7.			☽ Perig.	26 Conradus
17 Hugo						✱21		27 Gunther.
18		☌18	✱5.	□ 14.3				28
19 Elisabeth	☌ 10				✱22		Bq☉♂	29
20 *B.24.p.Tr.*				△ 23		□ 2		30 *E.1. Adv.*
21 Obl.Mar.							□☉♃4 ☽☋	1 Dec.
22			☌ 14.		□ 7.	△7.	☿ Station.in SS♀	2
23 Clemens	✱ 21	✱5						3
24					△19			4 Barbara
25 Catharin.		□13		☍ 20.5c				5
26 Conrad.	□5					☍18	□♂♀3	6 Nicolaus
27 *B.1. Adv*		△22.	✱6.				♀ Elongat. max	7 *E.2. Adv.*
28	△15						à ☉le.	8 Concep. M.
29			□18				☽Apog.	9 Joachimus
30 Andreas					☍1.		□☉♄3	10

Styl. Veteri	Stylo Novo	♄ Longit ♓ G. M	♄ Lat M D Z	♃ Longit ♓ G. M.	♃ Lat M D I	♂ Longit ♉ G. M.	♂ Lat S A O	☉ Longitudo. ♐ G. M. S.	♀ Longit ♒ G. M.	♀ Lat M D I	☿ Longit. ♐ G. M.	☿ La. S A I	☽ Longit. ♌ G. M.	☽ Latit. M D G. M	☊ Longit. ♎ G. M
1	11	18.46	15	10.38	16	2. 13	47	19.36.44	6. 48	49	19.43	51 2	17. 3	4 10	9. 9
2	12	18.48	15	10.46	16	2. 19	49	20.37.58	7. 47	44	18.34	3	28 50	3 25	9. 29
3	13	18.50	15	10.53	16	2. 26	50	21.39.13	8. 46	39	17.20	15	♍ 10 39	2 36	9. 55
4 ☉	14	18.53	15	11. 1	16	2. 34	51	22.40.29	9. 44	33	16. 2	27	22.34	1 39	10.34
5	15	18.55	15	11. 9	16	2. 43	53	23.41.46	10.42	28	14.44	39	♎ 4 40	0 36	11.1
6	16	18.58	15	11.17	15	2. 51	54	24.43. 3	11.39	22	13.30	51	17. 5	0 29	11.42
7	17	19. 0	14	11.25	15	3. 2	56	25.44.20	12.36	17	12.31	52	29 51	S. 1 35	12.
8	18	19. 3	14	11.33	15	3. 12	57	26.45.37	13.32	12	11.48	53	♏ 13. 4	2 38	12.
9	19	19. 6	14	11.42	15	3. 23	59 1	27.46.55	14.28	6	11.21	54	26.44	3 33	11.5
10	20	19. 9	14	11.50	15	3. 35	0	28.48.13	15.23	1 0	11.10	55	♐ 10 52	4 19	11.2
11 ☉	21	19.12	14	11.59	14	3. 47	1	29 49 32	16.17	55	11.15	56	25 33	4 48	10.3
12	22	19.15	14	12. 8	14	4. 0	3	♑ 0. 50 51	17.11	51	11.25	57	♑ 10 11	4 59	9. 3
13	23	19.19	13	12.17	14	4. 14	4	1. 52.10	18. 4	46	11.39	58	25 8	D 4 48	8. 4
14	24	19.22	13	12.26	14	4. 28	6	2. 53.29	18 56	42	11.58	59 3	♒ 10 2	4 20	8. 2
15	25	19.25	13	12.35	14	4. 42	7	3. 54.48	19.48	38	12.23	0 D	24 47	3 34	8. 1
16	26	19.29	13	12.45	14	4. 57	9	4. 56. 8	20.39	33	12.54	0 2	♓ 9 16	2 34	8. 3
17	27	19.33	13	12.54	13	5. 12	10	5. 57.28	21.29	29	13.33	48	23 25	1 27	9.
18 ☉	28	19.37	13	13. 3	13	5. 28	11	6. 58.48	22.18	24	14.19	35	♈ 7. 14	0 12	9.
19	29	19.41	12	13.13	13	5. 45	13	8. 0. 8	23. 6	20	15.11	22	20 44	M 0 56	10.3
20	30	19.45	12	13.23	13	6. 2	14	9. 1. 28	23.53	15	16. 7	9 1	♉ 3 59	2 2	11.
21	31 Ia	19.49	12	13.33	13	6 19	16	10.2. 48	24.40	11	17. 7	56	16.59	3 1	11.
22	1	19.53	12	13.43	12	6. 36	17	11.4. 7	25.2	1 5	18.10	45	29 49	3 49	11.
23	2	19.57	12	13.53	12	6. 54	19	12.5. 26	26. 7	8	19.15	34	♊ 12 29	4 25	11.
24	3	20. 2	12	14. 4	12	7. 12	20	13.6. 45	26.49	18	20.23	23	24 59	4 49	10.
25 ☉	4	20. 6	11	14.14	12	7. 31	21	14.8. 4	27.30	28	21.33	12	♋ 7. 20	4 59 D	9.
26	5	20.10	11	14 25	12	7. 50	23	15.9. 22	28. 9	37	22.45	1 0	19 33	4 54	9.
27	6	20.15	11	14.35	12	8. 10	24	16.10.40	28.47	47	23.59	53	♌ 1. 37	4 36	8.
28	7	20.19	11	14.46	11	8. 30	26	17.11.58	29.24	56	25.15	44	13.33	4 6	7.
29	8	20.24	11	14.57	11	8. 50	27	18.13.16	29 59	6	26.33	36	25 24	3 25	7.
30	9	20.28	11	15. 8	11	9. 11	28	19.14 34	♓ 0 33	16	27.52	27	♍ 7. 13	2 36	7.
31	10	20.33	10	15.19	11	9. 32	30	20.15.51	1. 5	25	29.12	19	19. 2	1 40	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Occi.	♂ occid	☉	♀ occid	☿ oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Dec.				△5.		△5	☌☉☿1	11 Dec.
2			△7					12
3	☍14.	☍0.				□12		13 Lucia
4 *B.2. Adv.*				□0.3				14 *E.3. Adv.*
5					△13	✶18	SS♃♀ ☽☊	15 Abraham
6 Nicolaus				✶15.			✶♀☿23	16
7		△21	☍6					17
8 Conce.M.	△10.				□1			18 Christoph.
9 Joachim.								19
10	□13.	□1.			✶8	☌0.		20
11 *B.3. Adv.*			△4	☌7.32			Q☉♃	21 *E.4 Adv.*
12	✶14	✶3						22
13 Lucia			□15				☽ Perig.	23
14					☌15.	✶4	SS ♄♀	24 Adam Eva
15 Abraham			✶17	✶16			□♃☿13	25 Nativ D.
16 Ananias	☌17.	☌6				□6.	△☉♂0.	26 Stephan.
17				□23.30				27 Jo. Evang.
18 *B 4. Adv*						△13	Q☉♄ ☽☋	28 *E Infant.*
19					✶4.			29
20		✶17.	☌4	△10				30 David
21 Thomas	✶5.				□15			31 Sylvester
22								Jan 1643.
23	□14.	□3				☍14	□♄☿16	Abel
24 Ad Eva					△6			3
25 *B Nat. E.*		△14	✶0.	☍14.34			✶☉♃3 ☿Elon.(Max	4 *D. Mathus.*
26 Stephan	△1							5 Simeon
27 Jo. Evan			□13.				☽Apog.	6 Epiphan.
28 Innocen.								7
29					☍10	△2.		8 Erhardus
30 David		☍16	△4					9 Marcellin.
31 Sylvester	☍3			△3		□23	✶☉♄7	10 Paul. Fr.

Calculus secundæ Eclipsis ☉.

In altera Eclipsi ☉ eveniet media Luminarium ☌ die 13 Septemb h 11. min. 6 sec. 31. p. m. Intervallum inter veram & med. ☌ add. est 4 hor. 13/17//. Tempus apparens veræ ☌ eodem die 15 hor. 20/7//. quo tempere Anomalia ☉ est 1 Sex. 26 gr. 30/14//. Anomalia ☽ coæquat. 0 Sex. 54 gr. 21/16//. Coæquatus motus Latit. ☽ 5 Sex 46 gr 3/32//. Lat. ☽ vera M. D. 1 gr 12/11 //. Longitudo Luminar in 0 gr. 55/58// ♎ Hæc autem ☌ nobis Ecliptica esse nequit, eo quod primùm accidat ante ortum ☉, deinde ☽ nimia Latitudine Australi prædita sit: quamobrem iis hæc copula Ecliptica erit, qui sunt Meridiano Uraniburgico Orientaliores 5 hor. 25/53//. in Longitudine terræ 117 gr. 58/ & Latitud. Austr. 60 grad. quo pertinent illa loca quorum Meridianus transit ultra Oceanum Orientalem Indicum versus polum Antarcticum, in locis Terræ Magellanicæ Australis nondum cognitis & ultra Romeros Insulas: nam illic 3 h & 15/ ante merid. vera atq; visa ☌ Luminar. in 90 Eclipticæ gradu concurrit, daturq; tunc Altitudo Luminar. 20 gr 36/ Parallax. ☉ 2/49//. ☽ 56/ 2//. Parall. ☽ à ☉ 53/23//. Latit. ☽ visa Merid. 18/48//. Sd ☉ 15/14//. Sd ☽ corr. 12/32//. Sũma SSdd. 27/46//. Pars deficiens 8/58//. Digiti Ecliptici 3 min 31 sec. 54 Pro indaganda Parallaxi Longitud. ☽ ante unam horam ☌ veræ dantur 1. distantia polor. & Horiz. 30 gr. 2 Complem Decl ☽ 88 gr 40/. 3. Distantia ☽ à M. C. 63 gr. 45/ Altitudo ☽ 14 gr. 0/30//. Parall. ☉ 2/54//. ☽ 58/11// ☽ à ☉ 55/17//. Distantia ☽ ab Horoscopo 74 gr. 10/ Angulus Eclipticæ c Vertic. 85 gr. 56/30//. Proinde Parallaxis Longitud. ☽ à ☉ 3/55// Cumq; verus motus hor. ☽ sit 28/59// prodit visus 25/41//. Hinc tempus Incidentiæ colligitur 48/54//. ita ut tota duratio sit 1 hor. 37/48//.

Radices mediorum motuum Planetarum ex Tabb. Rudolphinis excerptæ, & ad Meridianum Vraniburgicum meridiemq; Calendarum Ianuarii Iuliani Anni 1642. spectantes, ex Nobil. Tychonis Brahei observationibus ac hypothesibus.

	S	°	′	″
Præcessio Æquinoctiorum à prima stella ♈	0	28	11	51
Longitudo media ☉ ab Æquinoctio verno	9	20	59	11
Apogæum Solis	3	6	25	13
Longit. ☽ media ab Æquinoct. Verno	1	26	43	20
Apogæum Lunæ	2	38	4	19
Nodus Ascendens Lunæ	11	24	50	34
Longitudo media ♄ ab Æquin. Verno	11	20	4	0
Aphelium Saturni	8	26	49	19
Nodus Boreus Saturni	3	21	48	48
Longitudo media ♃ ab Æquin. Verno	10	25	36	39
Aphelium Iovis	6	7	24	16
Nodus Boreus Iovis	3	5	18	28
Longitudo media ♂ ab Æquinoctio Verno	7	25	32	0
Aphelium Martis	4	29	45	39
Nodus Boreus Martis	1	17	11	48
Motus medius Longitudinis ♀	7	14	56	13
Aphelion Veneris	10	8	7	42
Nodus Boreus Veneris	2	13	32	51
Motus medius Longitudinis ☿	5	0	15	59
Aphelium Mercurij	8	14	1	26
Nodus Boreus Mercurij.	1	13	23	57

FINIS
Ephemeridis ad Annum Christi 1642.

EPHEME

EPHEMERIS
MOTUUM COELESTIUM
ad annum æræ Christianæ
M. DC. XLIII.

Annus hic est tertius à Bisextili, cujus Character est
Periodus Scaligerana 6356.
atq; Numerantur

A Condito Mundo secundum Sethi Calvisij supputationem. Anni	5592	Ab obitu Alexandri Magni.	1966.
A Diluvio.	3936.	Ab anno Juliano.	1687.
Ab Exitu Israelitarum ex Ægypto.	3140.	A passione & morte Christi.	1610.
Ab anno Nabonazaræo.	2391.	Ab anno æræ Diocletianæ.	1359.
Ab anno Olympiadico.	2418.	Ab Hegira seu fuga Mahometis.	1052.
		A Correctione Calendarij Gregor.	61.

In Juliano.		*In Gregoriano.*
10.	Aureus Numerus.	10.
28.	Cyclus Solis.	28.
A.	Literæ Dominicales.	D.
11.	Indictio Romana.	11.
20.	Epactæ.	10.
Hebd. 7. dier. 0.	Intervallum minus.	Hebd. 7. dier. 3.

Festa mobilia & immobilia præcipua secundum utrumq; Calendarium, Julianum & Gregorianum, ad dies suos asscripta in Ephemeridibus inveniuntur.

Hoc anno Ingressus Solis in quatuor puncta signorum Cardinalium, ad Meridianum Uraniburgicum & tempus apparens, accidit Juliano Stylo.

☉ in	♈	Die	10	Martij.	H.	4.	Min.	24.
	♋	Die	11	Junij.	H.	7.	Min.	45.
	♎	Die	12	Septem.	H.	22.	Min.	20.
	♑	Die	11	Decem.	H.	9.	Min.	55.

Quatuor hic annus in duobus mundi Luminaribus per terrarum Orbem Eclipses reducit, duas ☉is, propè totales, & Lunæ totidem, sed partiales: ex quibus altera ☽ nobis patebit; reliquæ infra Horizontem contingent. Primùm igitur duas ☽ defectiones breviter examinabo: deinde & ☉arium Eclipsium Epilogismum in præcipuis capitibus subjungam.

I. Eclipsis Lunæ.

Media ☍ ☉ ☽ accidit Uraniburgi die 24 Martii, St. Vet 9 hor. 52/52// à meridie. Intervallum inter med. & veram ☍ add. est 11. hor. 23/11//. Tempus apparens veræ ☍ exhibetur eodem d. 24 Mart 21 hor. 20/4 //. quo tempore inveniuntur Anomalia ☉ 4 Sex. 35 gr. 58/23//. Anomal. ☽ coæq. 0 Sex 46 gr. 29/15// Coæquatus motus Lat. ☽ 0 Sex. 9 56/26//. Latitud. ☽ vera S. A. 51/43//. ☉ Longitudo in 14 29/6// ♈. ☽ in 14 29/6// ♎. Sd ☽ 15/36//. Sd. Umbr. corr 43/16//. Aggreg. SSdd. 58/52//. Pars deficiens 7/9//. Hinc emergunt digiti 2 & min. 45 Scrupula casus eliciuntur 28/7//. quibus divisis per ☽ motum horar. verum 28/40//. colligitur Tempus incidentiæ 58/51//. Totaq; duratio unius horæ, 57/42// Latit. ☽ ad initium Eclipſ. S. A. 49/4//. ad finem 54/20// S. A. Evenict igitur Eclipsis initium ad Meridianum Uraniburgicum die 24 Martii, h 20, min. 21. sec. 50. Medium, ut antè, 21 h. 20/41//. Finis h. 22 min 19 sec. 32. Nobis autem hæc Eclipsis non erit conſpicua, quia eo tempore ☽ adhuc est sub Horizontem nostrum submersa. Ab illis autem omnibus videri poterit, quorum Longitudo sese ab 152 gr. ad 361 gr. extendit. Illi verò, qui subjacent Longitudini 256 gr. 35 / quiq; Uraniburgo sunt Occidentaliores per 9 horas 20 / 41//. ut sunt illi populi qui habitant in California, cis Hispaniam novam, in Insula de Cedros, & in illis locis quæ mari pacifico adjacent, hanc Eclipsin in Meridiano notabunt. Observabunt etiam illi qui tunc per fretum Magellanicum navigant, & tam in America Septentrionali quam Meridionali, quiq; regionem Totonteac incolunt.

II. Eclipsis Lunæ.

	Sex. vel dies	Grad. vel hor	/	//
Media ☍ Luminar. accidit	17 Sept.	14	17	10
Interſtitium temp. inter ver. & med. syzyg. subtr.		6	41	22
Tempus apparens veræ ☍	17 Sept	7	37	13
Anomalia ☉	1	29	51	39
Coæquat. motus Latit. ☽	1	8	57	38
Longitudo ☉ vera	3	4	18	43
Longitudo ☽ vera	0	4	18	43
Latitudo ☽ vera M. A.			46	40
Semidiameter ☽ correcta ob elevat. poli in Huena			19	35
Sd. Umbra terræ correct.			46	34
Aggreg. SSdd.			66	9

	Sex. vel dies	Grad. vel h.	/	//
Pars deficiens			19	29
Digiti Ecliptici 5		5 D.	58	10
Scrupula Incidentiæ			46	53
Quæ divisa per motum ☽ horarium verum			33	20
Dant tempus Incidentiæ		1	24	23
Et totam durationem		2	48	46
Latitudo ☽ ad Eclipſ initium		M. A.	42	20
Latitudo ☽ ad Eclipſ finem		M. A.	51	0
Initium Eclipſ. in Merid. Uraniburg. p. m.		6	12	50
Medium s. veræ ☍		7	37	13
Finis temp. appar.		9	1	36



Meridiane autem illorum imminebit ☽ ad medium suum Orbem ferè deficiens, qui subjecti sunt Longitudini loci 102 gr. 26/ ceu sunt loca in Tartaria ad Oby fluvium, in nova Zembla, in Samegeda, in Astracam, in mari de Sala, quod olim Caspium dictum est, in Ormuz Indiæ prope Persiam. Videbiturq; etiam ab illis prope in Meridiano, qui per Mare Arabicum & Indicum ad Insulam S. Brandani, de Diego Roys, de Nazare, des Romeros &c. appellunt, ut & ab illis qui in Orasan, Sigistan, Macran, Circan, Jeselbas Regionibus Persiæ habitant.

I. Eclipsis ☉ Totalis, sed nobis inconspicua.

Media ☌ Luminar. accidet Uraniburgi die 9 Mart. 15 hor. 30/ 50//. p.m. Intervallum inter ver. & medium ☌ subtrah. 1 hor. 6/41//. Ita ut tempus apparens veræ ☌ fiat Uranib. 14 hor. 23/57// quo tempore invenitur Æquatio Æquinoct. add. 9/45//. Anomalia ☉ 4 Sex 20 gr. 54/ 20//. Æquatio ☉ add. 2 gr. 1/51//. Coæquat. anomalia ☽ 3 Sex. 33 gr. 7/43//. Argum. Latit. ☽ 2 Sex. 53 gr. 55/9//. Vera Lat. ☽ S. D. 31/44//. Suntq; ambo Luminaria in 29 gr. 25/22// ♓. Hæc verò ☌ nobis Ecliptica esse nequit, quia Luminaria eo tempore sunt infra terram: Illis a. Ecliptica patebit in ipso 90 Eclipticæ gradu, qui à nostro Meridiano versus ortum per 8 hor. 37/31 // sub Longitudine terræ 166 gr. 8/ & Latitud. 30 gr. remoti sunt. His enim per 58/32// antè merid h e. 11 hor. 1/28// vera Synodus, Luminar. in 90 gr. Eclipticæ continget. Huic tractui subjacent Insulæ Oceani Chinensis, & loca quæ per med. Japoniam excurrunt, ut sunt Taxum, Bungo, Xicoca, Xima, Insulaq; item adjacentes, nec non Insula de Fogo, S. Claræ, in extremitate Orient. Asiæ. Nam hoc præfato tempore sub Latit. loci Sept 30 gr. datur Altitudo ☉ 56 gr 43/. Parall. ☉ 1/40//. Parall ☽ 34/44//. Parall ☽ à ☉ 33/4//. Latitudo ☽ visa Austr. 1/ 20//. Sd. ☉ 15/17// ☽ 17/7// Aggreg SSdd. 32/24. Pars deficiens 31/ 4//. Cùm igitur pars deficiens superet diametrum ☉, quæ est 30/34//. argumento est, inibi locorum hanc Eclipsin ☉ fore centralem & totalem, admodum terribilem. Ut verò etiam patescat tempus Incidentiæ & durationis huius Eclipsis, Altitudo ☽ ad unam horam retro investiganda est, quæ fit in dictis 10 hor. 1/28//. Danturq; 1 distantia polor. & Horiz. 60 gr. 2. Complementum Decl ☽ 89 gr. 55/. 3. Distantia ☽ à Meridiano 28 gr. 57/ Quare Altitudo ☽ invenitur 49 gr 20/ Distantia ☽ ab Horoscopo 76 gr. 10/. Angulus Eclipticæ c. vertic 73 gr. 20/ 40// & Parallax. Longitud. ☽ 11/14// Cùm igitur verus motus horar. ☽ sit 33/0//. prodit visus 21/46// Tempusq; Incidentiæ colligitur 1. hor 29/ 3// Totaq; duratio 2 hor. 58/ 36//. Origanus eam ferè per semissem horæ justo breviorem fecit.

II. Eclipsis ☉ etiam fermè totalis calculus.

Media Luminar. ☌ fiet Uraniburgi d 2 Septemb h. 19. 55/9// p m. Interstitium inter veram & med ☌ subtrah. est 3 h 8/33// Tempus apparens veræ ☌ 16 hor 43/20// Anomalia ☉ 1 Sex. 15 gr. 25/14//. Anomalia ☽ coæq 0 Sex. 3 gr. 57/44// Argum. Lat. ☽ 5 Sex 53 gr. 51/ 42// Latit ☽ A. D. 32/ 2// Hæc ☌ autem non potest esse nobis Ecliptica, quia cadit in inferius hæmisphærium, & insuper Latitudo ☽ est Australis: illis autem futura est Ecliptica, qui dissiti sunt à nostro Meridiano per h. 6 7/58//. sub Longitudine terræ 128 gr. 43/ & Latit. Austr. 32 gr. quò pertinet tractus Maris Indici & terræ incognitæ Australis, quæ interjacet regnum Lucach, Beach, & Maletur, nec non Insulas des Romeros. Quippe in illis locis ☉ ante meridiem per 1 h 8/ 48//. seu 10 hor. 51/ 12//. post mediam noctem, in nonagesimo Eclipticæ gradu cum ☽, atq; ita vera ac visa ☌ concurrent. Ubi ex distantia polor. & Horizontis 58 gr. Excessu Declin ☉ 93 gr. 58/ 20// & distantia ☉ à M. C. 17 gr. 12/ eliciuntur Altitudo Luminar. ab Horizonte in circulo verticali 50 gr. 29/. Parallaxis ☉ 1/55//. Parallaxis ☽ 38/9//. ☽ à ☉ 36/14//. Latit. ☽ visa Sept 4/ 12//. Cumq; semid. ☉ sit 15/11// ☽ æ 15/ 15//. Aggreg. SSdd. 30/26// Relinquitur pars deficiens 26/14//: & digiti Ecliptici 10, 22/: In locis autem quæ magis ad Æquatorem vergunt, grandior erit, in remotioribus verò minor erit hæc defectio ☉lis. Per unam horam retrò invenitur (ex distantia polor 58 gr. Excessu Decl. ☽ 94 gr. 38/. Distantia ☽ à M. C. 32 gr. 12/) Altitudo ☽ 42 gr, 21/. & iterum Parall. ☉ 2/13// ☽ æ 44/13. ☽ à ☉ 42/0//. Distantia ☽ ab Orientis puncto 75 gr. 0/. Angulus Eclipticæ cum Vertical. 75 gr. 51/50//. Hinc existit Parall. Longitudin. ☽ æ 10/16//. Quæ subtracta à vero motu horario 27/44// relinquit visum 17/28//. Scrupula Incidentiæ 30/8//. Tempus Incidentiæ 1 hor. 43/31// ita ut tota duratio sit 3 hor. 27/ 2//.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♓	M. D Z	♓	M. D I	♉	S A I	♑	♓	S A I	♑	S D O	♉	M D	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M	G. M.
1 ☉	11	20.38	10	15.30	11	9. 54	31	21.17. 6	1. 36	35	0. 34	10	0. 57	0 39 S	7. 58
2	12	20.43	10	15.41	11	10.17	31	22.18.22	2. 6	47	1. 56	3 M	13. 2	0 24	8. 30
3	13	20.48	10	15.53	10	10.40	32	23.19.36	2. 35	59 Z	3. 19	5	25.23 ♏	1 29	9. 7
4	14	20.54	10	16. 4	10	11. 3	32	24.20.49	3. 2	11	4. 43	13	8. 6	2 30	9. 44
5	15	20.59	10	16.16	10	11.27	32	25.22. 1	3. 28	24	6. 8	20	21.13 ♐	3 26	10.15
6.	16	21. 4	10	16.28	10	11.51	33	26.23.12	3. 52	36	7. 34	28	4. 50	4 12	10.33
7	17	21.10	10	16.40	10	12.15	33	27.24.23	4. 14	48 3	9. 1	34	18 56 ♑	4 44	10.31
8 ☉	18	21.15	9	16.53	10	12.40	33	28.25.33	4. 34	'	10.29	41	3. 31	5 0 —D—	10. 7
9	19	21.20	9	17. 5	10	13. 5	34	29 26 42 ♒	4. 52	12	11.57	48	18.27 ♒	4 55	9. 23
10	20	21.26	9	17.18	10	13.30	34	0 27 51	5. 8	25	13.25	54 ·I·	3. 32	4 31	8. 26
11	21	21.31	9	17.30	9	13.55	34	1. 28.59	5. 22	37	14.53	1	18 49 ♓	3 46	7. 33
12	22	21.37	9	17.42	9	14.21	34	2. 30. 6	5. 34	51 4-	16.22	6	3. 54	2 46	6. 56
13	23	21.43	9	17.5-	9	14.47	35	3. 31.12	5. 43	4	17.52	12	18 43 ♈	1 36	6. 42
14	24	21.48	9	18. 7	9	15.13	35	4. 32.16	5. 50	·8	19.24	17	3 9	0 21 —M—	6. 5
15 ☉	25	21.54	9	18.20	9	15.39	35	5. 33.19	5. 53	32	20.56	23	17.11 ♉	0 54	7. 20
16	26	22. 0	8	18.33	9	16. 5	36	6. 34 21	5 54 Ret.	45	22.29	28	0. 48	2 3	7. 54
17	27	22. 6	8	18.45	9	16.31	36	7. 35.22	5. 53	59 5	24. 3	32	14. 2	3 3	8. 38
18	28	22.12	8	18.58	9	16.58	36	8. 36.22	5. 49	12	25.37	36	26 56 —♊—	3 53	9. 14
19	29	22.18	8	19.10	9	17.25	37	9. 37.20	5. 43	26	27.12	41	9. 31	4 30	9. 35
20	30	22.24	8	19.23	8	17.52	37	10.38.17	5. 35	40	28 47 —♒—	45	22. 0 —♋—	4 54	9. 51
21	31 Feb	22 31	8	19.36	8	18.20	37	11.39.12	5. 25	53 6	0 22	49	4 16	5 3 D	9. 4
22 ☉	1	22.37	8	19.49	8	18.48	37	12.40. 6	5. 14	5	1. 58	51	16.24	5 0	9 2
23	2	22.43	8	20. 2	8	19.16	38	13 40.59	5. 2	16	3. 35	54	28 26 ♌	4 43	8. 5
24	3	22.50	7	20.15	8	19.44	38	14.41 51	4. 49	27	5. 13	55	10 23	4 13	8. 1
25	4	22.56	7	20.28	8	20.12	39	15.42.41	4. 35	38	6. 52	59 Z	22 16 ♍	3 32	7. 26
26	5	23. 3	7	20.41	8	20.40	39	16.43.30	4. 20	50 7.	8. 32	1	4. 7	2 42	6. 4
27	6	23. 9	7	20.54	8	21. 8	39	17.44.17	4. 4	1	10.13	2	15.58	1 45	6 1
28	7	23.16	7	21. 8	7	21.37	39	18.45. 3	3. 46	12	11.54	2	27 52 —♎—	0 43 —S—	5.
29	8	23.23	7	21.21	7	22. 6	40	19.45.47	3. 27	23	13.36	3	9 52	0 21	5. 5
30	9	23.29	7	21.34	7	22.35	40	20.46.30	3. 6	35	15.19	4	22. 2 —♏—	1 25	6. 9
31	10	23.36	7	21.48	7	23. 4	40	21.47.10	2. 42	46	17. 24		4 2-	2 28	6. 31

Stylo Veteri.	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ occid	♃ Occid	♂ occid	☉	♀ occid	☿ oriēt.		
1 A. Ianuar.							☽☊. Præcessit (	11 Jan. D. 1. p. E
2				□19.37			✱♀☿4. (✱☉♄	12
3					△ 15.	✱17		13 Hilarius
4 Telesph.	△ 23.	△15	☍6					14 Felix
5 Simeon				✱8	□22			15
6 Epiph.		□20						16 Marcellus
7 Julian.	□ 3.							17 Antonius
8 A. 1. p Ep		✱21.	△15		✱1.	☌12.		18 D. 2 p. Epip
9	✱5			☌18.46				19
10 Paul. Er.			□ 16.				△♂☿2 ☽Perig.	20 Fab. Seb.
11 Hygin.								21 Agneta
12		☌ 23	✱17		☌4.	✱23		22 Vincent.
13 Hilar.	☌ 5						✱♃☿ 0.	23
14 Felix				✱ 3			☽☋	24 Timoth.
15 A. 2. p Ep.						□ 7.	✱♄☿16 SS☉♀	25 D. 4. Ep. C. P
16 Marcell.				□11.20	✱ 9			26 Polycarp.
17 Anton.	✱ 15	✱ 7	☌ 5			△ 21	☿Statio, in SS☉f	27
18 Prisca					□16.			28
19		□ 19		△0				29
20 Fab. & Se.	□ 1						Td ♂☿	30 Adelgun.
21 Agneta					△4.			31
22 A. 3. p. Ep.	△12.	△7	✱ 5					1 Febr. D. Sept
23						☍9	SS♀☿	2 Purif. M.
24 Timot.			□19	☍9. 32			☽ Apog.	3 Blasius
25 Conv. P.								4
26 Polycar.					☍0.		✱♃♂1.	5 Agatha
27	☍15	☍10.	△ 11					6 Dorothea
28							☽☊	7
29 A. Septua.				△ 21		△8.		8 D. Sexag.
30 Adelgu.					△21			9 Apollon.
31							SS☉♀	10 Scholast.

Styl. Veteri	Stylo Novo	♄ Long't	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	☊ Longit.
		♓	M D Z	♓	M D I	♉	S A I	♒	♓	S A 7	♒	M D Z	♏	S A	♎
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	23.43	7	22. 1	7	23.33	40	22.47.49	2. 16	57 8	18.46	4	17. 5 ♐	3 23	7. 7
2	12	23.49	7	22.15	7	24. 3	40	23.48.27	1. 43	1	20.31	2	0 7	4 11	7. 47
3	13	23.56	6	22.29	7	24.33	40	24.49. 3	1. 2	5	22.17	0 1	13.35	4 47	8. 24
4	14	24. 3	6	22.43	7	25. 4	40	25.49.37	0. 19	9	24. 4	58	27.32	5 6	8. 52
5 ☉	15	24.10	6	22.57	7	25.34	41	26.50. 8	♒ 29 35	12	25.53	56	♑ 11.56	5 8 D	9. 1
6	16	24.17	6	23.11	7	26. 5	41	27.50.37	28.49	16	27.42	54	26 44	4 48	8. 49
7	17	25.24	6	23.25	7	26.36	41	28.51. 5	27.59	20	29.32	50	♒ 11.50	4 10	8. 10
8	18	24.31	6	23.39	7	27. 7	41	29.51.32	27.14	24	♓ 1. 23	46	27. 3	3 14	7. 1[illegible]
9	19	24.38	6	23.53	7	27.38	41	♓ 0. 51.57	26.31	28	3. 14	41	♓ 12 15	2 2	6. 21
10	20	24.45	6	24. 7	7	28. 9	41	1. 52.19	25.49	32	5. 6	37	27.15	0 44	5. 35
11	21	24.53	6	24.21	7	28.40	41	2. 52.39	25. 8	36 D	6. 58	32	♈ 11.55	M 0 35	5. 11
12 ☉	22	25. 0	6	24.35	7	29.11	41	3. 52.57	24.35	34	8. 51	25	26.10	1 51	5. 11
13	23	25. 7	6	24.49	6	29 42	41	4. 53.14	24. 3	31	10.44	18	♉ 9. 59	2 57	5. 30
14	24	25.14	6	25. 3	6	♊ 0 14	41 D	5. 53.29	23.33	28	12.38	11	23.22	3 53	6. 3
15	25	25.22	6	25.17	6	0. 45	41	6. 53.42	23. 4	24	14.32	3 0	♊ 6. 20	4 34	6. 41
16	26	25.29	6	25.31	6	1. 17	41	7. 53.54	22.38	20	16.27	56	18 57	5 7	7. 19
17	27	25.36	6	25.46	6	1. 49	41	8. 54. 4	22.14	13	18.22	46	♋ 1 18	5 12 D	7. 59
8	28	25.44	6	26. 0	6	2. 21	41	9. 54.12	21.52	7	20.16	36	13.26	5 11	8. 10
19 ☉	Ma 1	25.51	6	26.14	6	2. 53	41	10.54.18	21.32	0 7	22. 8	25	25.26	4 55	8. 16
20	2	25.58	6	26.29	6	3. 25	41	11.54.21	21.14	54	24. 0	15	♌ 7. 20	4 26	8. 8
21	3	26. 6	6	26.43	6	3. 58	41	12.54.21	20.59	47	25.51	5 S	19.11	3 47	7. 4[illegible]
22	4	26.13	6	26.58	6	4. 30	41	13.54.19	20.47	38	27.40	8	♍ 1. 3	2 57	7. [illegible]
23	5	26.20	6 A	27.12	6	5. 2	41	14.54.15	20.37	28	29 26	20	12.56	2 0	6. 25
24	6	26.28	6	27.26	6	5. 35	41	15.54. 9	20.29	19	♈ 1. 9	33	24 51	0 57	5. 41
25	7	26.35	6	27.41	6	6. 7	41	16.54. 1	20.23	9	2. 50	45	♎ 6. 57	S 0 9	5. 1
26 ☉	8	26.43	6	27.55	6	6. 40	40	17.53.51	20 20	0 -6-	4. 29	58 -1-	19. 8	1 16	4. 3[illegible]
27	9	26.50	6	28. 9	6	7. 12	40	18.53.39	20.18	50	6. 2	12	♏ 1. 29	2 19	4. 19
28	10	26.58	6	28.24	6	7. 45	40	19.53.25	20.17	41	7. 30	25	14. 2	3 18	4. 2[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ occid.	♂ occid.	☉	♀ Occid	☿ oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Februarii*	△12	△ 9	☍12.	□11.25		□3.	✱♄♂ 10	11 Februar.
2 Purif. M.					□ 3		SS☉♄ □☉♂11	12
3 Blasius	□ 18	□15.		✱21		✱17	SS♄☿ SS♃☿	13
4					✱ 4.		□♂☿18.	14 Valentin.
5 *A. Sexages*	✱20	✱18	△ 23					15 *D. Quinq*
6 Doroth.							☌☉♀11 ☌☉☿20 (	16 Juliana
7					orien.		(☌♀☿ 10	17
8			□0	☌ 4 43	☌ 0	☌ 8	□♂♀21 ☽ Perig.	18 Ciner.
9 Apollon.	☌ 20	☌ 19						19
10			✱ 1.				☽☋	20
11					✱ 21.		SS♄♀ ♀Aspect.	21
12 *A Quinq.*				✱ 13.			SS♃♀ (per bid.	22 *Sexagesi.*
13						✱17	(anticip. ob max. la	23
14 Valentin.	✱3.	✱3	☌ 13		□ 0.		Conjunct. ma-	24 Matthias
15 *Cinerum.*				□1.10		□ 18.	☌♄♃ 17	25
16 Juliana	□13	□14			△7		gna Sat. & Jovis	26
17				△16.				27
18 Concord.						△16	SS♀☿ Q♂☿	28 Roman.
19 A. *Quinq*	△ 1	△ 1.	✱ 16					1 Mar. *D. Re.*
20							(☽ in Apog.	2 Simplic.
21					☍3.		☌♄☿3. ☌♃☿13 (	3
22 Cat Pet.			□ 7					4 Adrianus
23				☍ 4.19				5
24 Mathi.	☍3	☍5	△ 22			☍ 14.	☽☊	6 Fridelin.
25								7 Perpetua
26 A. *Remin.*					△2			8 *D Oculi*
27							SS ☉♀	9
28 Roman.				△10	□ 10		✱♂☿7.	10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit	☊ Longit.
		♓	M Z	♓	M D I	♊	S D I	♓	♒	S D	♈	S A I	♏	S A	♎
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	27. 6	6	28.38	6	8. 18	40	20.53.10	Dir. 20 19	31	8. 51	39	26 48	4 8	4. 40
2	12	27.14	6	28.53	6	8. 51	40	21.52.52	20.24	21	10. 5	50 -Z-	♐ 9. 52	4 46	5. 13
3	13	27.21	6	29. 8	6	9. 24	40	22.52.32	20.31	10	11.12	2	23 17	5 10	5. 54
4	14	27.29	6	29.22	6	9. 57	40	23.52.10	20.41	5 59	12.12	14	♑ 7 5	5 17	6. 35
5 ☉	15	27.36	6	29.36	6	10.30	40	24.51.44	20.53	48	13. 6	25	21.10	-D- 5 5	7. 0
6	16	27.44	6	29 51	6	11. 3	40	25.51.16	21. 8	37	13.53	37	♒ 5. 40	4 34	7. 26
7	17	27.52	6	♈ 0. 5	6	11.37	40	26.50.47	21.25	27	14.32	44	20 28	3 43	7. 23
8	18	27.59	6	0. 19	6	12.10	39	27.50.16	21.43	16	15. 3	51	♓ 5. 26	2 38	6. 53
9	19	28. 7	6	0. 34	6	12 44	39	28.49.43	22. 3	5 4	15.25	59 3	20 29	1 22	6.
10	20	28.14	6	0. 48	6	13.18	39	29 49 7	22.25	54	15.39	6	♈ 5. 23	M 0 1	5.
11	21	28.22	6	1. 2	6	13.51	39	♈ 0 48.29	22.49	44	15 45	14	20. 4	1 21	4. 1
12 ☉	22	28.29	6	1. 17	6	14.25	39	1. 47.49	23.15	34	-Ket.- 15 40	14	♉ 4. 26	2 34	3. 4
13	23	28.37	6	1. 31	6	14.59	39	2. 47. 7	23.43	24	15.30	14	18 23	3 37	3. 3
14	24	28.44	6	1. 46	6	15.33	39	3. 46.22	24.12	14	15.15	15	♊ 1 54	4 25	3.
15	25	28.52	6	2. 0	6	16. 7	38	4. 45.35	24.43	4 3	14.54	15	15. 0	4 57	4.
16	26	28.59	6	2. 15	6	16 41	38	5. 44.46	25.15	54	14.27	15	27.41	5 14	4. 4
17	27	29. 7	6	2. 30	6	17.15	38	6. 43.55	25.48	44	13.56	16	♋ 10. 3	-D- 5 16	5. 1
18	28	29.14	7	2. 44	6	17.49	38	7. 43. 1	26 22	34	13.21	16	22. 9	5 4	5.
19 ☉	29	29.21	7	2. 59	6	18.23	38	8. 42. 5	26.57	24	12.42	17	♌ 4 5	4 38	6. 2
20	30	29.29	7	3. 13	6	18.58	38	9. 41. 6	27.33	14	12. 0	18	15.55	4 1	6.
21	31	29.36	7	3. 27	6	19.32	37	10.40. 6	28.11	4 7	11.15	-D. 18	27 44	3 13	6.
22	Ap. 1	29.43	7	3. 42	6	20. 6	37	11.39. 4	28.50	55	10.28	2 56	♍ 9 34	2 17	6.
23	2	29.51	7	3. 56	6	20.41	37	12.38. 0	29 30	46	9. 39	33	21 31	1 16	6.
24	3	29 58	7	4. 10	6	21.15	37	13.36.54	♓ 0 11	37	8. 47	11	♎ 3 36	0 10	5.
25	4	♈ 0 5	7	4. 25	6	21.50	37	14.35.46	0. 53	28	7. 52	1 48	15.51	-S.- 0 58	4.
26 ☉	5	0. 12	7	4. 39	6	22.24	37	15.34.36	1. 36	19	6. 55	25	28 18	2 3	3.
27	6	0 19.	7	4. 53	6	22.59	37	16.33.24	2. 29	10	6. 6	9	♏ 10 58	3 5	3. 1
28	7	0. 27	7	5. 8	6	23.33	36	17.32.10	3. 5	1	5. 25	0 53	23 50	3 56	2.
29	8	0. 34	7	5. 22	6	24. 8	36	18.30.53	3. 51	52	4. 54	37	♐ 6 55	4 38	2.
30	9	0. 41	7	5. 37	6	24.43	36	19.29.34	4. 38	43	4. 29	21	20 12	5 5	2. 5
31	10	0. 48	7	5. 51	6	25.18	36	20.28 12	5. 27	34	4. 9	5	♑ 3 42	5 16	3.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ occid	☉	♀ Oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Martii*	△0.	△3.	☍22				♀ Station.	11 Martij
2 Simplic.				□23.13	⚹19	△0.	Q♄♂	12 Gregorius
3	□7	□10					☿Digress. Max.	13 Euphras.
4 Adrian.						□9.		14
5 A. *Oculi*	⚹11	⚹14		⚹6.				15 *D. Lætare*
6 Fridelin.			△9			⚹14		16 Cyriacus
7 Perpet.					☌1.		☽ Perig.	17 Gertrud
8			□11				☌☉♄4 Q♃♂	18
9	☌12	☌16.		☌14.24			☽☋. Eclips. ☉	19 Josephus
10 Alexan.			⚹13.			☌17	in Inf. Ocea Ch.	20
11					⚹5		☌☉♃7.	2 Benedictus
12 A. *Lætare*							☿Station, in ⚹♂	22 *D. Iudica*
13 Euphra.	⚹18.				□10		⚹♂☿5 Q☉♂	23
14		⚹0		⚹4				24
15			☌2		△19	⚹0		25 Anna M.
16 Cyriac.	□2	□9		□17.0				26 Castulus
17 Gertrud.						□7.		27
18	△14	△22						28
19 A. *Iudica*				△10		△16.		29 *D. Palmar.*
20			⚹22.					30 Guidon.
21 Benedict.					☍1		☌☉☿8 ☽ Apog.	31
22			□22					1 *Aprilis*
23	☍17						SS♄♀	2 Mar. Æg.
24		☍1		☍21.20		☍9.	☽☊ Q♂☿ (	3
25 Ann M.			△12				(Eclips. ☽	4 Ambrosius
26 A. *Palma.*					△5			5 *D. Pascha*
27								6
28	△12	△21			□18	△21	☌♃☿15	7 Egesippus
29 Eustach.				△21.			SS♀☿	8
30 Guido	□19		☍6.					9
31		□4			⚹3	□1	SS♃♀	10

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit	Lat	Longit	Lat	Longit	Lat	Longitudo.	Longit	Lat	Longit.	La.	Longit.	Latit	Longit.
		♈ G. M.	M A Z	♈ G. M.	M A I	♊ G. M.	S D I	♈ G. M. S	♓ G. M.	S D I	♈ G. M.	M A O	♑ G. M.	S D G. M.	♎ G. M.
1	11	0. 55	7	6. 6	6	25.53	36	21.26.48	6. 17	25	3. 53	11	17.25	5 9	4. 5
2 ☉	12	1. 2	7	6. 20	6	26.28	36	22.25.23	7. 7	17	3. 42	26	♒ 1. 22	4 48	4. 48
3	13	1. 9	7	6. 34	6	27. 3	36	23.23.57	7. 57	10	3. 33	40	15.34	4 1	5. 26
4	14	1. 16	8	6. 48	6	27.38	35	24.22.28	8. 48	3 0.	3. 27 Dir	54 I.	29.58	3 3	5. 50
5	15	1. 24	8	7. 2	7	28.13	35	25.20.58	9. 39	56	3. 28	8	♓ 14 31	1 52	5. 53
6	16	1. 31	8	7. 16	7	28.48	35	26.19.25	10.31	48	3. 33	23	29. 9	0 34	5. 32
7	17	1. 38	8	7. 30	7	29.23	35	27.17.49	11.24	41	3. 43	33	♈ 13.46	M 0 46	4. 51
8	18	1 .45	8	7. 44	7	29 58	35	28.16.12	12.17	34	3. 59	43	28.15	2 2	3. 58
9 ☉	19	1. 52	8	7. 58	7	♋ 0. 33	35	29.14.33	13.11	27	4. 23	53 Z	♉ 12.39	3 9	3. 6
10	20	1. 59	8	8. 12	7	1. 8	35	♉ 0. 12 52	14. 5	19	4. 55	3	26 25	4 4	2. 26
11	21	2. 6	9	8. 26	7	1. 43	35	1. 11. 9	15. 0	12	5. 32	13	♊ 9. 58	4 43	2. 4
12	22	2. 13	9	8. 40	7	2. 18	34	2. 9. 24	15.55	6	6. 11	20	23. 7	5 6	2. 1
13	23	2. 20	9	8. 54	7	2. 53	34	3. 7. 37	16.51	I M	6. 52	27	♋ 5. 52	5 13 D	2. 15
14	24	2. 26	9	9. 8	7	3. 28	34	4. 5. 48	17.47	5	7. 34	34	18.17	5 5	2. 44
15	25	2. 33	9	9. 21	7	4. 4	34	5. 3. 57	18.44	11	8. 18	40	♌ 0 24	4 42	3. 18
16 ☉	26	2. 40	9	9. 35	7	4. 39	34	6. 2. 3	19.41	16	9 4	47	12.18	4 9	3. 54
17	27	2. 46	9	9. 49	7	5. 14	34	7. 0. 9	20.39	22	9. 54	50	24. 7	3 25	4. 27
18	28	2. 53	10	10. 2	8	5. 50	34	7. 58.14	21.37	28	10.49	53	♍ 5. 53	2 33	4. 52
19	29	3. 0	10	10.16	8	6. 25	34	8. 56.17	22.36	34	11.49	56	17.44	1 33	5. 6
20	30	3. 6	10	10.29	8	7. 1	34	9. 54.17	23.35	40	12.56	58 .3	29.42	0 59	5. 5
21	Ma 1	3. 13	10	10.43	8	7. 36	33	10.52.16	24.34	45	14. 4	1	♎ 11 53	S 0 37	4. 48
22	2	3. 19	10	10.56	8	8. 12	33	11.50.13	25.34	50	15.13	1	24 30	1 43	4. 16
23 ☉	3	3. 25	10	11. 9	8	8. 47	33	12.48. 9	26.34	54	16.23	2	♏ 7 3	2 44	3. 32
24	4	3. 32	10	11.23	8	9. 23	33	13.46. 3	27.34	58 I.	17.34	2 D.	20. 3	3 40	2. 43
25	5	3. 38	11	11.36	8	9. 59	33	14.43.55	28.35	3	18.47	2	♐ 3 30	4 23	1. 58
26	6	3. 44	11	11.49	8	10.34	33	15.41.46	29.36	7	20. 1	2 .2	16 50	4 52	1. 25
27	7	3. 50	11	12. 3	8	11.10	33	16.39.35	♈ 0. 37	11	21.18	59	♑ 0. 31	5 8 D	1. 12
28	8	3. 56	11	12.16	8	11.46	33	17.37.22	1. 38	15	22.39	56	14 20	5 4	1. 18
29	9	4. 2	11	12.29	9	12.22	32	18.35. 8	2. 40	20	24. 4	53	28.14	4 41	1. 4
30 ☉	10	4. 8	11	12.42	9	12 57	32	19.32.55	3. 42	24	25.34	50	♒ 12.13	4 4	2. 2.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ oriét	♂ occid	☉	♀ Oriét.	☿ Oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Aprilis*	✱23.		·	□7.26				11 *Aprilis*
2 *A. Pascha*		✱10				✱4		12 *D. Quasimo*
3			△18	✱14			☽ Perig.	13
4 Ambros.					☌15.			14 Tiburt.
5			□23.				☿ Sta. sub rad. ♄	15 Olympia
6	☌14	☌13.				☌7	☽☋	16
7 Egesippus								17
8			✱3	☌0.2				18 Valerianus
9 *A. Quasim.*					✱1.			19 *D. Mis. D.*
10	✱10	✱21				✱16		20
11					□10		□♄♂ 20	21
12 Julius	□17		☌18	✱18.			SS ☉♄ ✱☉♂ 9.	22
13 Justinus		□6			△23	□2		23 Georgius
14 Tiburt.								24 Adelbert
15 Olympia	△4.	△18.		□10.15		△17		25 Marcus
16 *A. Mi. D*							☌♃☿ 20.	26 *D. Iubilate*
17							♀ Digress. Max	27
18 Valerian.			✱0	△4.			☽ Apog. ☿ Elo. (	28 Vitalis
19					☍10.		(Max.	29
20	☍7	☍21.	□15				SS ☉♃ ☽☊	30
21						☍4.		1 *Maji*
22								2
23 A. *Iub. Ge.*			△3	☍11.28				3 *D. Cantate.*
24 Adelb.					△14.			4
25 Marcus	△0	△15						5 Gothar.
26						△6		6 Jo. an. port.
27 Anastas.	□6	□20	☍19.		□0			7
28 Vitalis				△6		□16		8 Stanisl
29	✱10				✱7.		□♃♂ 7.	9
30 *A. Cant.*		✱1		□13.10			☌♄♀ 11	10 *D. Rogat.*

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♈	M. A	♈	M. A	♋	S D	♉	♈	M A	♈	M D	♒	S D	♎
		G. M.	Z	G. M.	I	G. M.	I	G. M. S.	G. M	I	G. M	Z	G. M.	G. M.	G. M.
1	11	4. 14	12	12.55	9	13.33	32	20.30.36	4. 45	28	27. 7	46	26.15	3 11	3. [illegible]
2	12	4. 20	12	13. 8	9	14. 9	32	21.28.18	5. 48	31	28 42	40	♓ 10 21	2 5	3. 4[illegible]
3	13	4. 26	12	13.21	9	14.45	31	22.25.58	6. 51	34	♉ 0. 18	34	24 30	0 53	4. 1[illegible]
4	14	4. 32	12	13.34	9	15.20	31	23.23.36	7. 54	37	1. 55	28	♈ 8. 41	M 0 23	4. 21
5	15	4. 38	12	13.46	9	15.56	31	24.21.13	8. 58	40	3. 34	2[illegible]	22.[illegible]	1 37	4. [illegible]
6.	16	4. 44	13	13.59	9	16.32	30	25.18.49	10. 1	43	5. 15	16	♉ 6 56	2 [illegible]	3. 34
7 ☾	17	4. 49	13	14.11	10	17. 8	30	26.16.24	11. 5	46	6. 58	8	20 5[illegible]	3 [illegible]	2. 4[illegible]
8.	18	4. 55	13	14.24	10	17.43	29	27.13.57	12. 9	48	8. 42	0 4.	♊ 4. 35	4 [illegible]	[illegible]
9	19	5. 1	13	14.36	10	18.19	29	28.11.29	13.13	51	10.26	52	18. 0	4 5[illegible]	[illegible]
10	20	5. 6	13	14.48	10	18.55	29	29 9. 0	14.18	54	12.12	45	♋ 1. 5	5 3	0. [illegible]
11	21	5. 12	14	15. 0	10	19.31	28	♊ 0. 6. 30	15.23	57	13.59	37	13.49	D 4 59	0. 2[illegible]
12	22	5. 17	14	15.12	10	20. 7	28	1. 3. 59	16.28	59	15.49	34	26.14	4 40	0. 31
13	23	5. 22	14	15.24	10	20.43	27	2. 1. 27	17.33	Z 0	17.44	32	♌ 8. 20	4 9	0. 5[illegible]
14 ☉	24	5. 27	14	15.36	11	21.19	27	2. 58.54	18.38	2	19.43	30	20.16	3 29	1. 1
15	25	5. 32	14	15.48	11	21.55	27	3. 56.19	19.44	4	21.45	28	♍ 2. 3	2 39	1. 52
16	26	5. 37	15	16. 0	11	22.31	26	4. 53.43	20.49	5	23.49	25	13 49	1 42	2. 2[illegible]
17	27	5. 42	15	16.12	11	23. 7	26	5. 51. 6	21.54	7	25.54	7 0	25.38	0 41	3. 0
18	28	5. 47	15	16.24	11	23.43	25	6. 48 27	23. 0	9	28 0	49	♎ 7. 37	S 0 22	3. 23
19	29	5. 52	15	16.35	11	24.19	25	7. 45.48	24. 6	10	♊ 0. 7	30	19.51	1 26	[illegible]. 33
20	30	5. 56	16	16.47	11	24.55	25	8. 43. 9	25.12	12	2. 15	17	♏ 2. 23	2 27	3. 37
21 ☉	31	6. 1	16	16.58	11	25.31	24	9. 40.29	26.19	14	4. 24	6	15.18	3 23	3. [illegible]
22	Iun. 1	6. 6	16	17.10	12	26. 7	24	10.37.48	27.25	14	6. 36	16	28 34	4 8	2. 2[illegible]
23	2	6. 10	16	17.21	12	26.44	23	11.35. 6	28.32	15	8. 51	27	♐ 12.12	4 41	1. 3[illegible]
24	3	6. 15	17	17.32	12	27.20	23	12 32 22	29 39	15	11. 9	37	26. 8	4 58	0. 4[illegible]
25	4	6. 19	17	17.43	12	27.56	23	13 29.37	♉ 0 46	15	13.26	47	♑ 10 17	4 57	0. [illegible] ♍
26	5	6. 23	17	17.54	12	28.33	22	14.26.51	1. 53	16	15.42	57	24 32	4 38	29.[illegible]
27	6	6. 27	17	18. 5	12	29. 9	22	15.24. 5	3. 0	16	17.56	4	♒ 8. 49	4 1	[illegible]
28 ☉	7	6. 31	17	18.16	12	29 46	21	16.21.19	4. 7	16	20. 8	11	23 23	[illegible] 9	[illegible]
29	8	6. 35	18	18.27	13	♌ 0. 22	21	17.18.32	5. 15	17	22.18	28	♓ 7. 11	2 7	0. [illegible]
30	9	6. 39	18	18.37	13	0. 59	21	18.15.44	6. 22	17	24.27	25	21 12	0 57	1. 1[illegible]
31	10	6. 42	18	18.48	13	1. 35	20	19.12.56	7. 30	17	26.34	2	♈ 5. 7	M 1 6	2. [illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Orien.	♂ Occid	☉	♀ Orien.	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ:	Stylo Novo.
1 *Maji*						✱ 1.	☽ Perigæa.	11 *Maij*
2			△ 6.	✱ 20				12 Pancrat.
3 Invent. ✠	☌ 17				☌ 22.		☽☋	13 Servatius
4 Florian.		☌ 8	□ 12					14 Asc. C
5 Gerhard.						☌ 21	SS ♄☿ Q♂☿	15 Sophia
6 Joan. a.p.			✱ 17					16
7 A. *Rogate*				☌ 10.10				17 *D. Exaudi*
8	✱ 0.	✱ 18			✱ 15			18
9								19
10	□ 7.						☌♃♀ 13.	20
11 Asc. C.		□ 2	☌ 11.		□ 3.	✱ 0	SS ♃☿	21
12 Pancrat	△ 10.			✱ 14.			SS ♀☿	22
13 Servat.		△ 10.			△ 23	□ 23		23 Desider.
14 A. *Exaud*								24 *D. Pente.*
15				□ 4.11			✱♂☿ 3	25
16			✱ 18.				✱☉♄ 20	26 Beda
17	☍ 20			△ 22		△ 0.	☽☊	27 Quatem.
18 Potent.		☍ 17.					Td♄♂	28
19 Bernh.			□ 9		☍ 9		□♂♀ 5	29
20								30 V Vigan.
21 A. *Pentec.*			△ 9.				✱♄☿ 5.	31 *D. Trinitat.*
22	△ 13			☍ 22.50		☍ 17		1 *Iunij.*
23 Desider.		△ 9						2 Marcell.
24 Urban.	□ 17				△ 6.			3 Erasm.
25		□ 12.					☌☉☿ 1	4 Corp. C.
26	✱ 20		☍ 7		□ 13.			5 Bonifac.
27		✱ 16		△ 12		△ 18	✱♃☿.2 Q♄☿	6
28 A. *Trinit.*					✱ 20.		☽ Perigæa	7
29				□ 18.36				8
30 Wigand.			△ 18			□ 6.	SS ♄♀. ✱☉♃ 1(	9
31 Petron.	☌ 3						☽☋ (Q☉♄	10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit ♈ G. M.	♄ Lat M A Z	♃ Longit ♈ G. M	♃ Lat M A I	♂ Longit. ♌ G. M.	♂ Lat S D I	☉ Longitudo ♊ G. M. S.	♀ Longit ♉ G. M.	♀ Lat M A Z	☿ Longit. ♊ G. M.	☿ La. S A I	☽ Longit ♈ G. M	☽ Latit. M A G. M.	☊ Longi. ♎ G M.
1	11	6. 46	18	18.58	13	2. 12	20	20.10. 8	8. 38	18	28 40	39	18.58	1 28	2. 34
2	12	6. 49	19	19. 8	13	2. 49	19	21.7. 18	9. 47	18	♋ 0. 45	42	♉ 2. 42	2 34	2. 48
3	13	6. 53	19	19.18	13	3. 25	19	22.4. 28	10.56	18	2. 49	46	16.21	3 30	2. 42
4	☉ 14	6 57	19	19.28	14	4. 2	19	23.1. 38	12. 5	18 D.	4. 52	49	29 53	4 13	2. 15
5	15	7. 0	19	19.38	14	4. 38	18	23.58.47	13.14	17	6. 53	52	♊ 13.14	4 43	1. 34
6	16	7. 4	20	19.48	14	5. 15	18	24.55.55	14.23	16	8. 52	55 D.	26.22	4 58 D	0 45
7	17	7. 7	20	19.58	14	5. 51	18	25.53. 3	15.13	15	10.48	55	♋ 9. 16	4 55	♍ 29.58
8	18	7. 10	20	20. 8	15	6. 28	17	26.50.11	16.43	14	12.41	54	21.52	4 39	29.21
9	19	7. 13	21	20.18	15	7. 5	17	27.47.19	17.53	13	14.32	54	♌ 4. 13	4 9	28.5[illegible]
10	20	7. 16	21	20.27	15	7. 41	17	28.44.26	19. 3	12	16.20	53	16.18	3 29	28.5[illegible]
11	☉ 21	7. 19	21	20.36	15	8. 18	16	29 41.33	20.13	11	18. 5	52	28.12	2 41	29. 1
12	22	7. 22	21	20 45	15	8. 55	16	♋ 0. 38.40	21.22	10	19.48	48	♍ 9. 59	1 45	29.22
13	23	7. 25	22	20.54	16	9. 31	16	1. 35.47	22.31	9	21.29	44	21.44	0 45 S	29 [illegible]
14	24	7. 27	22	21. 3	16	10. 8	15	2. 32.54	23.40	7	23. 9	40	♎ 3. 33	0. 16	♒ 0. 2[illegible]
15	26	7. 30	22	21.12	16	10 45	15	3. 30. 1	24.49	6	24.47	36	15.31	1 18	1. [illegible]
16	25	7. 32	22	21.20	16	11.21	15	4. 27. 7	25.57	4	26.23	32	27 44	2 18	1. 34
17	27	7. 35	23	21.29	16	11.58	14	5. 24.13	27. 6	3	27.57	26	♏ 10.18	3 12	1. 5[illegible]
18	☉ 28	7. 37	23	21.37	17	12.35	14	6. 21.19	28.14	1	29.29	19	23.16	3 59	1. 5
19	29	7. 39	23	21 45	17	13.12	14	7. 18.25	29.22	o I	♌ 0. 58	12	♐ 6. 41	4 34	1. 4[illegible]
20	30	7. 41	24	21.53	17	13.49	13	8. 15.31	♊ 0. 30	58	2. 24	6 o.	20.32	4 55	1. [illegible]
21	Iul 1	7. 43	24	22. 1	17	14 26	13	9. 12.37	1. 38	57	3. 47	59	♑ 4. 46	4 58 D	0. 20
22	2	7. 46	24	22. 9	17	15. 3	13	10.9. 43	2. 47	55	5. 8	50	19.17	4 41	♍ 29.2[illegible]
23	3	7. 48	24	22.16	18	15.40	12	11.6. 49	3. 57	53	6. 27	40	♒ 3. 58	4 6	28.3[illegible]
24	4	7. 49	25	22.24	18	16 17	12	12.3. 56	5. 6	50	7. 44	31	18 40	3 15	28.1[illegible]
25	☉ 5	7. 51	25	22.31	18	16.54	12	13.1. 3	6. 16	48	8. 58	22	♓ 3. 17	2 10	28. [illegible]
26	6	7. 52	25	22 38	18	17 31	11	13.58.10	7. 26	46	10.10	13	17.42	0 59 M	28.24
27	7	7. 53	25	22.45	18	18. 8	11	14.55.17	8. 36	44	11.19	2 M	♈ 1. 54	0 16	28.58
28	8	7. 54	26	22.51	19	18.45	11	15.52.25	9. 46	42	12.25	9	15.50	1 28	29.[illegible]
29	9	7. 55	26	22,58	19	19.22	10	16.49.33	10.56	40	13.29	21	29 34	2 34	♒ 0. 2[illegible]
30	10	7. 56	26	23. 4	19	19 59	10	17.46.41	12. 6	38	14.30	32	♉ 13. 3	3 30	0. 55

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Orien.	♂ Occid	☉	♀ Orien.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Iunij*		☌ 0		✱ 2		✱ 20		11 *Iunij*
2 Marcell.			□ 0		☌ 13.		Q♃☿	12
3 Erasm.							SS♂☿	13
4 *A.1.p.Tr.*	✱ 13		✱ 8					14 *D.2.Tri.*
5 Bonifac.		✱ 12		☌ 21.10			□♄☿ 1.	15
6	□ 20							16 Roland.
7		□ 21			✱ 13	☌ 3.		17
8								18
9 Medard.	△6		☌ 6				△♄♂ 6	19 Gervas.
10 Onophr.		△8.			□ 6		☽ in Apog.	20 Sylver.
11 A.*2 p.Tr.*				✱3.			SS ♃♀ Td♃♂	21 *D.3. Trin.*
12						✱ 23	□♃☿ 15	22
13				□21.47	△ 2		☽☋	23
14 Valerius	☍8		✱14				Q☉♃	24 *Ioa. Bapt.*
15 Vitus		☍ 0.				□ 21	✱♀☿2 Td♄☿	25
16 Roland.				△14				26
17			□3					27 7 dorm.
18 A.*3 p.Tri.*					☍10	△ 11.		28 *D.4. Trin.*
19 Gervas.	△2		△12				□☉♄ 9	29 Pet. Pau.
20 Sylver.		△ 2						30
21	□5			☍7.49				1 *Iulij.*
22 XM Mar.		□5					Q♂♀	2 Visit. Mar.
23	✱6		☍20		△ 0	☍4.		3
24 Joh. Ba.		✱ 6					△♄☿2 ☽ Perig	4 Vlricus
25 A. *4.p.Tr.*				△17.	□5.		(Td♃☿	5 *D.5. Trinit.*
26							✱♄♀9 ☽☊(	6
27 7 dorm.	☌ 10.				✱ 12.	△17.		7
28		☌ 12.	△5.	□0.4				8 Chilianus
29 Pet. Paul.								9 Cyrillus
30			△13	✱9		□3		10 7 Fratr.

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M A Z	♃ Longit. ♈ G. M.	Lat M A I	♂ Longit. ♌ G. M.	Lat S D I	☉ Longitudo. ♋ G. M. S.	♀ Longit ♊ G. M.	Lat M D I	☿ Longit. ♌ G. M.	La. M A O	☽ Longit. ♉ G. M.	Latit. M A G M	☊ Longi ♎ G. M.
1	11	7. 57	27	23.10	19	20 37	10	18.43.49	13.16	36	15.29	43	26 21	4. 14	1. 13
2	☉ 12	7. 58	27	23 16	19	21.14	9	19.40.58	14.26	33	16.25	56	♊ 9 30	4. 44	1. 1
3	13	7. 59	27	23.22	20	21.52	9	20.38. 7	15.37	30	17.17	8	22 28	4 59	0. 55
4	14	8. 0	27	23.28	20	22.29	9	21.35.16	16.47	28	18. 3	21	♋ 5. 16	D 4. 59	0. 21
5	15	8. 0	28	23.33	20	23. 6	8	22.32.26	17.58	25	18.47	34	17.53	4. 44	♍ 29 37
6	16	8. 0	28	23 39	20	23.44	8	23.29.37	19. 9	23	19.29	46	♌ 0. 17	4. 15	28.50
7	17	8. 1	28	23.45	21	24.21	7	24.26.49	20.19	20	20. 7	47	12.28	3. 35	28. 8
8	18	8. 2	29	23.50	21	24.58	7	25.24. 1	21.30	17	20.41	47	24 30	2. 46	27.37
9	☾ 19	8. 2	29	23.55	21	25.36	7	26.21.14	22.41	15	21.10	48	♍ 6. 22	1. 50	27.20
10	20	8. 2	29	24 0	21	26.13	6	27.18.27	23.52	12	21.34	48	18. 9	0. 50	27.19
11	21	8. 2	29	24. 4	22	26.51	6	28.15.41	25. 3	10	21.53	49 2	29 54	0. 12	27.32
12	22	8. 2	30	24 9	22	27.28	6	29.12.55	26.14	7	22. 8	14	♎ 11 43	1. 15	27 5
13	23	Ret. 8. 1	30	24.13	22	28. 6	5	♌ 0. 10.10	27.25	4	22.18	40 3	23 41	2. 15	28.3
14	24	8. 1	30	24 17	22	28 43	5	1. 7. 26	28.36	1 -0-	22.25	5	♏ 5 53	3. 30	29.
15	26	8. 0	30	24 21	23	29.21	4	2. 4. 44	29 48	58	22 27	31	18 25	3. 57	29 4
16	☉ 25	7 59	31	24 24	23	29 59	4	3. 2. 3	♋ 0. 59	55	Ret. 22.22	57	♐ 1. 22	4. 35	♎ 0. 11
17	27	7. 59	31	24 27	23	♍ 0. 36	4	3. 59 22	2. 10	52	22.10	4 8	14 46	4. 58	0. 2
18	28	7. 58	31	24 30	23	1. 14	3	4. 56 42	3 22	49	21.55	15	28 39	5. 5	0. 19
19	29	7 57	32	24.33	24	1. 52	3	5. 54. 3	4. 33	47	21.35	25	♑ 12 59	4. 53	♍ 29 5
20	30	7. 56	32	24 36	24	2. 29	3	6. 51.25	5. 45	44	21.11	34	27 42	4. 23	29. 0
21	31	7. 55	32	24.39	24	3. 7	2	7. 48 47	6. 57	41	20.43	44	♒ 12.38	3. 34	28.1
22	Au. 1	7. 54	32	24.41	24	3. 45	2	8. 46.11	8. 9	38	20.11	36	27 40	2. 29	27.1
23	☾ 2	7. 53	33	24.43	25	4. 23	1	9. 43.36	9. 21	35	19.34	28	♓ 12 39	1. 15 M	26.4
24	3	7. 51	33	24 45	25	5. 1	1	10.41. 2	10.34	32	18.52	20	27 26	0. 4	26.3
25	4	7. 50	33	24.47	25	5. 38	1	11.38.29	11.46	29	18. 6	12	♈ 11.55	1. 21	26.4
26	5	7. 48	33	29 49	25	6. 16	0	12.35.58	12.58	26	17.16	5 A.	26. 5	2. 32	27.1
27	6	7. 46	34	24 50	26	6. 54	0	13.33.28	14.11	23	16.27	6	♉ 9. 53	3. 32	27.5
28	7	7. 44	34	24.52	26	7. 32	0	14.30 59	15.23	20	15.43	8	23.22	4. 19	28.3
29	8	7. 42	34	24 53	26	8. 10	-0- 59	15.28.31	16.36	17	14.56	9	♊ 6. 32	4. 49	29.1
30	☾ 9	7. 40	35	24 54	26	8. 48	59	16.26. 4	17.49	14	14. 5	11	19 24	5. 7	29.3
31	10	7. 38	35	24 54	27	9. 26	58	17.23.39	19. 2	11	13.15	13	♋ 2. 5	5. 8	29.4

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ orien.	♂ occid	☉	♀ orien.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Iulii* 2 *A.5.T.* V.M	✱ 21		✱ 23		☌ 10	✱ 14	☿ Elong. Max.	11 *Iulii* 12 *D.6.p.Tr.*
3 4 Ulricus	□ 5	✱ 2						13 14
5 Anshelm. 6	△ 15	□ 11		☌ 9.45			△♃♂ 20 □☉♃ 4 SS☉♂(	15 Divi. Ap. 16
7 8 Chilianus		△ 23	☌ 1		✱ 16	☌ 16	(✱♀☿ 9 Q♄♀ ☽ Apog.	17 Alexius 18 Rosina
9 *A.6.p.Trin* 10				✱ 20.	□ 14		✱♃♀ 3 ☽☊	19 *D.7.p.Tri.* 20
11 Pius 12	☍ 16.					✱ 21		21 22 Mar. Ma.
13 Margaret. 14		☍ 1	✱ 9	□ 13.50	△ 8		♄ Station. ✱♂♀ 5	23 Apollin. 24 Christin.
15 Divis. Ap 16 *A.7.p.Tr.*	△ 12		□ 21	△ 3		□ 7.	☿ Sta. in △ ♃ ferè	25 Jacobus 26 *D.8.p.Tr.*
17 18 Rosina	□ 15.	△ 17	△ 4.		☍ 8.	△ 13		27 28
19 20	✱ 16.	□ 19		☍ 15.42			Bq♄♂ Q♃♀ (19	29 30
21 22 Mar. Ma.		✱ 19	☍ 10		△ 18.	☍ 13.	△☉♄ 2. □♄♀(☽ Perig.	31 1 *Aug.* Vi. P.
23 *A.8.p Tr.* 24	☌ 17			△ 23.			☽☋ SS☉♀	2 *D.9.p.Tri* 3
25 Jacobus 26 Anna		☌ 22	△ 18.		□ 0	△ 11	Td☉♃	4 Aristarch. 5 Osvvald.
27 Martha 28				□ 7.2	✱ 8.	□ 12.	(16. SS♀☿ Vc.♄♂. ☌☉☿(	6 Sixtus 7
29 30 *A.9.p.Tr.*	✱ 2	✱ 10.	□ 3	✱ 18		✱ 15		8 9 *D.10.p.Tri.*
1	□. 10.		✱ 14				Td♃☿	10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M. A Z	♃ Longit. ♈ G. M.	Lat M. A I	♂ Longit ♍ G. M.	Lat S D O	☉ Longitudo. ♌ G. M. S.	♀ Longit ♋ G. M.	Lat M D O	☿ Longit ♌ G. M	Lat M D 4	☽ Longit. ♋ G. M	Latit. M D G. M.	☊ Longit ♍ G. M.
1	11	7. 35	35	24.55	27	10. 4	58	18.21.15	20.15	8	12.32	14 3	14.35	4 54	29.32
2	12	7. 33	35	24.55	27	10.42	58	19.18.52	21.27	6	11.54	59	26 54	4 26	29. 6
3	13	7. 31	35	24.56	27	11.20	57	20.16.30	22.40	3	11.21	43	—♌— 9. 4	3 47	28.28
4	14	7. 28	36	24.56	27	11.58	57	21.14. 9	23.52	0 .S.	10.53	29	21. 6	2 59	27.44
5	15	7. 26	36	24 56	28	12.36	56	22.11.50	25. 5	3	10.30	3 2,	—♍— 3. 1	2 2	27. 0
6	☉16	7. 24	36	Ret. 24 56	28	13.14	56	23.9. 33	26.18	5	10.14	58	14.51	1 1	26.22
7	17	7. 21	36	24.56	28	13.52	55	24.7. 17	27.30	8	10. 5	40	26 38	—S.— 0 3	25.56
8	18	7. 19	36	24.56	28	14.31	55	25.5. 2	28.43	11	10. 3 -Dir.-	22	♎ 8. 27	1 7	25.44
9	19	7. 16	37	24.56	29	15. 9	55	26.2. 49	29 56	14	10 18	4 I	20.19	2 8	25.47
10	20	7. 13	37	24.55	29	15.47	54	27.0. 37	♌ 1. 9	16	10.49	46	♏ 2. 20	3 5	26. 5
11	21	7. 10	37	24.54	29	16.25	54	28.58.27	2. 22	19	11.25	28	14 34	3 55	26.34
12	22	7. 7	37	24.52	29	17. 4	53	28.56.19	3. 35	21	12. 2	12	27. 4	4 34	27.11
13	☉23	7. 4	37	24.51	29	17.42	53	29.54 13	4. 49	23	12.19	.O. 55	—♐— 9. 57	5 2	27.50
14	24	7. 0	, 8	24.49	30	18.20	52	♍ 0. 52. 9	6. 2	25	13.17	39	23 16	5 13	28.24
15	25	6. 57	38	24.47	30	18.59	52	1. 50. 7	7 16	27	13.56	22	—♑— 7. 2	—D— 5 8	28.47
16	26	6. 54	38	24 45	30	19.37	52	2. 48. 7	8. 29	29	14 36	6	21.17	4 44	28.51
17	27	6. 50	38	24.43	30	20.15	51	3. 46. 8	9. 42	[illegible]	15.29	-S. 7	—♒— 5. 56	4 0	28.31
18	28	6. 47	; 8	24.41	31	20.54	51	4. 44.10	10.55	32	16,35	20	20 54	3 0	27.50
19	29	6. 43	39	24.38	31	21.32	50	5. 42.13	12. 8	34	17.54	32	—♓— 6. 4	1 47	26.55
20	☉30	6. 40	9	24.35	31	22.11	50	6. 40 [illegible]	13,21	36	19.26	45	22 14	[illegible] 25	25.59
21	31	6. 36	39	24.32	31	22.49	49	7. 38.24	14.34	38	21.12	58 I	—♈— 6 17	—M— 0 57	25.18
22	Sep 1	6. 32	39	24,29	31	23.28	49	8. 36.32	15.47	41	22.55	5	21 4	2 14	25. 0
23	2	6. 28	39	24.25	32	24. 6	49	9. 34.43	17. 0	43	24.38	13	—♉— 5. 30	3 22	25. 5
24	3	6. 23	39	24,22	32	24.45	48	10.32.56	18,13	46	26,21	20	19.31	1 14	25.30
25	4	6. 19	40	24.18	32	25.24	48	11,31.10	19.26	48	28. 4	28	—♊— 3 6	4 5[illegible]	26. 6
26	5	6. 15	40	24.14	32	26. 2	47	12,29 26	20.39	51	29.49	35	16.17	5 12	26.46
27	☉6	6. 11	40	24,10	33	26.41	47	13.27.44	21.52	53	—♍— 1. 36	37	29 7	5 16 D	27.23
28	7	6. 6	40	24. 6	33	27.20	46	14.26. 5	23. 6	56	3. 25	39	♋ 11.39	5 5	27.51
29	8	6. 2	40	24. 1	33	27.58	46	15.24.28	24.19	58	5. 16	41	23 57	4 42	[illegible]
30	9	5. 58	41	23.57	33	28.37	45	16.22.52	25.33	I I	7. 9	43	♌ 6 5	4 3	28. 6
31	10	5. 53	41	23.52	34	29.16	45	17.21.18	26.47	3	9. 4	45	18 2	3 14	27.50

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Orien.	♂ Occid	☉	♀ Orien.	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *augusti*		□ 20						11 *augusti*
2	△ 21							12 Clara
3						☌ 4.	SS ♂☿	13
4 Aristarc.		△ 8		☌ 0.18			□♃♀ 21	14 Euseb.
5 Osvvald.			☌ 20.				☽ Apog. Td♄♀	15 Assu Ma.
6 *A.10.p.Tr.*							☽☊	16 *D.11 p.Tr.*
7	☍ 21.				✱ 2		△☉♃ 20	17
8						✱ 3		18 Helena
9		☍ 9		✱ 12.	□ 21			19 Sebaldus
10 Laurent.						□ 17.		20
11			✱ 4					21
12 Clara	△ 19			□ 3.46	△ 13.			22
13 A.11.*p.Tr.*			□ 15			△ 5	Td ♃☿	23 *D.12.p.Tr.*
14		△ 3		△ 12.			△♄♀18 Bq☉♄	24
15 Assu. Ma.	□ 0		△ 11					25 Ludovic.
16 Rochus		□ 5.						26
17	✱ 1.				☍ 6.	☍ 16.	Bq♃♂ ☿Digr.(	27 Gebhar.
18 Helena		✱ 6		☍ 23.23			(Maxima	28 Augusti.
19 Sebald.							☽ Perig. Td ♃♀	29 Deco Jo.
20 A.*12 p.T*			☍ 0				Vc.☉♄ ☽☋	30 *D.13.p.Tr.*
21	☌ 0.				△ 14.			31
22		☌ 5.				△ 3.	△♃☿21 SS ♂☿	1 *Septembr.*
23 Zachæus				△ 7.	□ 21.		Vcunx♃♂	2 Veronica
24 Barthol.			△ 9.			□ 14		3
25 Ludovi.	✱ 6			□ 16.32				4 Theodos.
26		✱ 15	□ 19		✱ 9		Bq ♄☿	5
27 A.*13.p.Tr*	□ 13.					✱ 5.		6 *D.14.p.Tr.*
28				✱ 6			△♃♀ 18.	7
29 Dec. Joh.		□ 0	✱ 8.				Vcunx ♄ ☿	8
30	△ 0							9
31 Paulinus		△ 12			☌ 20		Bq☉♃	10

Stylo Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	☊ Longit.
		♈	M A Z	♈	M A I	♍	S D O	♍	♌	S A I	♍	S A I	♌	M D	♍
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	5. 49	41	23.47	34	29 55	45	18.19.46	28. 1	6	10.59	47	29.56	2 19	27.20
2	12	5 .45	41	23.42	34	♎ 0. 34	44	19.18.16	29.15	7	12.53	D 46	♍ 11. 6	1 17	26.40
3 ☉	13	5. 40	41	23.36	34	1. 14	44	20.16.48	♍ 0. 29	9	14.46	44	23 35	0 13	25.55
4	14	5. 36	41	23.30	34	1. 53	43	21.15.23	1. 44	10	16.39	42	♎ 5. 25	S 0 52	25.13
5	15	5. 32	40	23.24	34	2. 32	43	22.14. 0	2. 58	11	18.32	40	17.20	1 57	24.38
6	16	5. 28	40	23.18	34	3. 12	43	23.12.39	4. 12	13	20.24	38	29.20	2 55	24.16
7	17	5. 24	40	23.12	34	3. 51	42	24.11.19	5. 27	14	22.15	33	♏ 11 29	3 47	24. 9
8	18	5. 20	40	23. 6	34	4. 30	42	25.10. 1	6. 41	15	24. 6	29	23.51	4 29	24.19
9	19	5. 15	39	22.59	34	5. 10	42	26.8. 45	7. 56	17	25.56	25	♐ 6. 24	4 58	24.43
10 ☉	20	5. 11	39	22.53	35	5. 49	41	27.7. 32	9. 10	18	27.45	21	19.16	5 15	25.17
11	21	5. 7	39	22.46	35	6. 29	41	28.6. 21	10.25	19	29.33	16	♑ 2. 29	D 5 15	25.58
12	22	5. 3	39	22.39	35	7. 8	40	29.5. 12	11.39	20	♎ 1. 20	11	16. 6	4 58	26.36
13	23	4. 58	39	22.32	35	7. 48	40	♎ 0. 4. 5	12.54	21	3. 6	5 0	♒ 0. 7	4 23	27. 6
14	24	4. 53	38	22 25	35	8. 27	40	1. 3. 1	14. 8	22	4. 51	59	14.32	3 30	27.18
15	25	4. 48	38	22.18	35	9. 7	39	2. 1. 39	15.22	22	6. 36	53	29 19	2 23	27. [illegible]
16	26	4. 43	38	22.11	35	9. 47	39	3. 0. 59	16.37	23	8. 20	48	♓ 14 20	1 4	26.3[illegible]
17 ☉	27	4. 38	38	22. 4	35	10.26	39	4. 0. 0	17.51	24	10. 3	41	29.28	M 0 19	25.41
18	28	4. 33	38	21.56	35	11. 6	38	4. 59. 3	19. 6	24	11.45	35	♈ 14 34	1 41	24.44
19	29	4. 29	37	21.49	35	11.46	38	5. 58. 8	20.20	25	13.26	28	29 29	2 54	23.5[illegible]
20	30	4. 24	37	21.41	35	12.25	37	6. 57.16	21.35	26	15. 6	21	♉ 14 6	3 55	23.31
21	Oct. 1	4. 19	37	21.34	35	13. 5	37	7. 56.26	22 50	26	16.45	15	28.19	4 40	23.2[illegible]
22	2	4. 14	37	21.26	35	13.45	37	8. 55.38	24. 4	26	18.23	8	♊ 12. 4	5 7	23.4[illegible]
23	3	4. 9	36	21.18	35	14.24	36	9. 54 53	25.19	27	20. 1	1 M	25.22	5 16 D	24.24
24 ☉	4	4. 4	36	21.11	36	15. 4	36	10.54.11	26.34	27	21.38	5	♋ 8. 15	5 9	24.50
25	5	4. 0	36	21. 3	36	15.44	36	11.53 31	27.48	27	23.14	12	20.46	4 47	25.3[illegible]
26	6	3. 55	36	20.55	36	16.24	35	12.52.53	29. 3	27	24.49	19	♌ 2 59	4 11	26. 1
27	7	3. 50	36	20.47	36	17. 4	35	13.52.17	♎ 0. 18	27	26.23	26	14.59	3 27	26.24
28	8	3. 45	35	20.39	36	17.44	34	14.51.43	1. 32	27	27.57	33	26 51	2 34	26.3[illegible]
29	9	3. 40	35	20.31	36	18.24	34	15.51.11	2. 47	27	29 30	40	♍ 8. 39	1 34	26.2[illegible]
30	10	3. 36	35	20.23	36	19. 4	34	16.50.42	4. 2	27	♏ 1 2	47	20.27	0 31	26. [illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Oriēt	♂ occid	☉	♀ Oriēt.	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Septembris*							(Bq ♄♀	11
2 Veronica				☌ 16. 47		☌ 4	☽ Apog. Ecl. ☉ (	12
3 *A. 14 p. Tr*			☌ 16.				☽☊	13 *D. 15 p. Tr.*
4 Theodos.	☍ 0.						SS ♂♀. Bq♃☿	14 Exalt. ✠
5		☍ 12						15 Nicodem.
6 Magnus					✶ 10		Vc. ♄♀. Vc. ☉♃	16 Euphemia
7 Regina							Vcunx ♃☿	17 Lampertus
8 Nat. Mar.	△ 22		✶ 21.	✶ 3		✶ 0.		18
9 Gorgon.					□ 3	occid	☍♄♂2 ☌☉☿6	19
10 *A. 5. p. T.*		△ 6.		□ 15. 24		□ 18		20 *D. 16. p. Tr*
11	□ 5		□ 7.		△ 15.			21 Matthæus
12		□ 11						22 Mauritius
13	✶ 8		△ 13.	△ 0		△ 6		23 Esdra
14 Exalt. ✠		✶ 12.					☍♄☿ 0.	24
15 Nicode.							Bq♃♀	25
16 Euphem.					☍ 4		☽ Peri. ☽☋ (Ecl. ☽	26 Cyprianus
17 *A. 16. p. T.*	☌ 8		☍ 18	☍ 7. 36		☍ 17.	☍☉♄14 ☌♂☿9	27 *D. 17 p. Tr.*
18		☌ 12						28 VVencesl
19								29 Michael
20 Fausta					△ 14		Vcunx ♃♀.	30 Hierony.
21 Matthæus	✶ 10.			△ 18				1 *Octobris*
22 Maurit.		✶ 17	△ 3			△ 13		2 Leodegar.
23 Esdra	□ 16				□ 0		☍♃☿ 18	3
24 *A. 17. p T.*			□ 14	□ 5. 31				4 *D. 18. p. Tr.*
25		□ 0.			✶ 15.	□ 5.		5
26 Cyprian.	△ 2			✶ 21.				6 Fides
27 Cosm. D.		△ 11.	✶ 4.					7
28 Wencesl.						✶ 2.		8
29 Michael							☍♄♀ 16	9 Dionysius
30 Hieron.							☽ Apog. ☽☊	10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit ♈ G. M.	Lat M D Z	♃ Longit ♈ G. M.	Lat M D I	♂ Longit ♎ G. M.	Lat S D O	☉ Longitudo ♎ G M. S.	♀ Longit ♎ G. M.	Lat S A I	☿ Longit. ♏ G. M.	La. M A O	☽ Longit. ♎ G. M.	Latit S A G. M	☊ Longit. ♍ G. M.
1	☉11	3. 31	35	20.16	36	19.44	33	17 50.15	5. 17	27	2. 35	53	2. 17	0 43	25.35
2	12	3. 27	35	20. 8	36	20.24	33	18.49.50	6. 31	27	4. 6	0	14.13	1 39	24.53
3	13	3. 22	35 A	20. 0	36	21. 5	32	19.49.26	7. 46	27	5. 37	-I- 7	26.17	2 39	24. 8
4	14	3. 17	35	19.52	36	21.45	31	20.49. 4	9. 1	28	7. 7	13	♏ 8. 30	3 32	23.26
5	15	3. 13	35	19.44	36	22.26	31	21.48.45	10.15	28	8. 36	20	20 54	4 16	22.54
6	16	3. 8	35	19.37	36	23. 6	30	22.48.28	11.30	28	10. 4	26	♐ 3. 29	4 49	22.37
7	17	3. 4	35	19.29	35	23.47	29	23.48.13	12.45	28 D	11.32	32	16.16	5 8	22.38
8	☉18	3. 0	35	19.21	35	24.27	29	24.48. 0	14. 0	28	12.55	38	29.17	5 12	22.55
9	19	2. 55	35	19.13	35	25. 8	28	25.47.49	15.15	28	14.25	44	♑ 12.31	D 4 59	23.28
10	20	2. 51	36	19. 5	35	25.48	28	26.47.41	16.30	28	15.50	50	26. 2	4 30	24. 7
11	21	2. 47	36	18.57	35	26.29	27	27.47.35	17.45	28	17.15	56	♒ 9. 51	3 44	24 48
12	22	2. 43	36	18.49	35	27.10	26	28.47.31	19. 0	27	18.39	1	23.59	2 44	25.24
13	23	2. 39	36	18.42	35	27.51	26	29 47.30	20.15	24	20. 2	6	♓ 8. 24	1 33	25.43
14	24	2. 35	36	18.34	34	28.32	25	♏ 0. 47.31	21.31	21	21.24	11	23 5	0 15	25.41
15 ☉	25	2. 31	36	18.26	34	29.13	24	[illegible]. 47.34	22.46	19	22.45	16	♈ 7 56	M 1 4	25.14
16	26	2. 27	36	18.18	34	29 54	24	2. 47.39	24. 1	16	24. 5	20	22 49	2 21	24.28
17	27	2. 24	36	18.11	34	♏ 0. 35	23	3. 47.46	25.16	15	25.23	24	♉ 7. 38	3 27	23.33
18	28	2. 20	36	18. 3	34	1. 16	22	4. 47.55	26.32	13	26.40	27	22.14	4 18	22.42
19	29	2. 16	37	17.56	34	1. 57	22	4. 48. 5	27.47	12	27.56	31	♊ 6 30	4 51	22. 7
20	30	2. 13	37	17.48	34	2. 38	21	6. 48.17	29. 2	11	29.11	34	20 21	5 7	21.52
21	31 No	2. 9	37	17.40	33	3. 19	21	7. 48.31	♏ 0. 18	9	♐ 0. 25	37	♋ 3. 45	D 5 6	21.58
22	☉1	2. 6	37	17.33	33	4. 0	20	8. 48.47	1. 33	8	1. 37	39	16.43	4 46	22.19
23	2	2. 3	37	17.26	33	4. 41	19	9. 49. 6	2. 48	6	2. 46	40	29 16	4 16	22.51
24	3	2. 0	37	17.19	33	5. 22	19	10.49.27	4. 3	4	3. 52	41	♌ 11.29	3 33	23.27
25	4	1. 57	37	17.12	33	6. 3	18	11.49 49	5. 18	3	4. 56	42	23.28	2 42	24. 6
26	5	1. 54	37	17. 5	33	6. 44	17	12.50.12	6. 33	1 -O-	5. 57	43	♍ 5. 16	1 44	24.33
27	6	1. 51	37	16.58	32	7. 25	17	13.50.37	7. 48	59	6. 54	41	17. 2	0 43 S	24.52
28	7	1. 48	37	16.52	32	8. 7	16	14.51. 4	9. 3	58	7. 47	38	28 48	0 20	24.59
29	☉[illegible]	1. 46	38	16.45	32	[illegible]. 48	15	15.51.34	10.18	56	8. 36	35	♎ 10 40	1 23	24.51
30	9	1. 43	38	16.39	32	9. 29	15	16.52. 5	11.32	55	9. 21	33	22 43	2 22	24.27
31	10	1. 40	38	16.33	32	10.11	14	17.52.38	12.47	53	10. 2	30	♏ 4 56	3 16	23.51

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriēt.	♂ occid	☉	♀ oriēt.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 D.18.p.T.Oct 2 Leodega.	☍2.	☍11.	☌13	☌10.0	☌7		Vc.♄☿ ☍♃♂ 16 ☽in Perig. Epic.	11 D.19.p.T.Oct 12
3 4 Francisc.		occid				☌21	☍☉♃4	13 14 Calixtus
5 6	△23.				✶6.		(suis ♂. Bq ♄ ☿ ☌☉☌23(☉tang.rad.	15 16 Gallus
7 8 D.19.p.Tr.	□6.	△6	✶14.	✶15				17 18 D.10.p Tr.
9 Dionysius 10 Gedeon	✶12	□12	□23.	□.26	□5.	✶4		19 P[illegible] 20
11 Burchard. 12		✶15.	△5.	△8.	△15	□14	☍♃♀21 Vcunx ♃☿	21 Ursula 22
13 14	☌15					△21	☽Perig.☽☋	23 Severinus 24 Salome
15 D.20 p.Tr. 16 Gallus		☌17	☍12	☍17 20	☍2		Vc.☉♄. SS♀☿ Bq♃☿	25 D.21.p.Tri. 26 Amand.
17 18 Lucia	✶17					☍8		27 28 Sim.Jud.
19 Ptolem. 20	□21	✶19.	△23		△17		Vcunx ♄♂ (Bq☉♄(scedūt(	29 30
21 Ursula 22 D.21.p.Tr.		□1.		△8			♀&☿tar.àSS di (Vc.♄♀ △♄☿9.	31 1 D.22 p T.Nov
23 Severin. 24 Salome	△5.	△11.	□11	□22.35	□8	△7.	☿ Elong.Max.	2 Omn. An. 3 Theophilus
25 Crispin. 26 Amand			✶3	✶17	✶3	□1.	☌♂♀8 Bq♄♀5	4 5
27 28 Sim. Jud.	☍6					✶19.	☽☊Bq♄♂ ☽ Apog.	6 Leonhard. 7 Florentius
29 D.12.p T. 30		☍12					Vc.☉♃ Bq♃♀	8 D.23.p.Trin. 9 Theodorus
31			☌11		☌7		SS ♂☿ ferè	10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longi
		♈	M D Z	♈	M D I	♏	S D O	♏	♏	S D O	♐	M D Z	♏	S A	♍
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	1. 38	38	16.27	32	10 52	13	18.53.14	14. 2	51	10.48	27	17.25	4 3	23. 6
2	12	1. 36	38	16.21	32	11.34	13	19.53.51	15.18	49	11.18	19	♐ 0. 8	4 36	22.19
3	13	1. 34	38	16.16	31	12.17	12	20.54.30	16.34	47	11.42	10	13. 4	4 57	21.38
4	14	1. 32	37	16.11	31	12.59	12	21.55.11	17.50	45	11.59	2	26.13	5 3	21.12
5	☉15	1. 30	37	16. 6	31	13.42	11	22.55.53	19. 6	42	12. 6 Ret.	I 53	♑ 9. 33	D 4 52	21. 1
6	16	1. 28	37	16. 1	30	14 25	10	23.56.37	20.22	40	12. 5	44	23. 1	4 26	21.12
7	17	1. 26	37	15.56	30	15. 7	10	24.57.22	21.38	38	11.56	29	♒ 6. 39	3 44	21.39
8	18	1. 24	36	15.51	30	15.50	9	25.58. 8	22.54	36	11.36	13	20.26	2 48	22.17
9	19	1. 22	36	15.47	29	16.33	9	26.58.55	24.10	34	11. 3	D 58	♓ 4. 22	1 43	23. 1
10	20	1. 21	36	15.43	29	17.16	8	27.59.43	25.26	31	10.19	42	18.29	0 29	23.39
11	21	1. 19	36	15.39	29	17.59	7	29.0. 33	26.42	29	9. 24	27	♈ 2. 46	M 0. 46	24. 5
12☾	22	1. 17	35	15.35	29	18.42	7	♐ 0. 1. 25	27.57	27	8. 22	7	17.11	2 0	24.11
13	23	1. 16	35	15.31	28	19.25	6	1. 2. 20	29.13	24	7. 13	S 13	♉ 1. 40	3 5	23.54
14	24	1. 15	35	15.28	28	20. 8	6	2. 3. 16	♐ 0. 29	22	5. 58	33	16. 8	3 59	23.25
15	25	1. 14	35	15.25	28	20.51	5	3. 4. 14	1. 44	20	4. 36	53 I	♊ 0. 28	4 37	22.25
16	26	1. 13	34	15.22	27	21.34	4	4. 5. 14	3. 0	18	3. 8	12	14.34	4 57	21.3[illegible]
17	27	1. 13	34	15.20	27	22.17	4	5. 6. 14	4. 15	15	1. 43	28	28.20	4 58 D	20 51
18	28	1. 12	34	15.17	27	23. 0	3	6. 7. 15	5. 31	13	0. 21	43	♋ 11.43	4 44	20.2[illegible]
19☉	29	1. 11	34	15.15	27	23.44	3	7. 8. 16	6. 47	11	♏ 29. 2	59 2	24 41	4 15	20.1[illegible]
20	30	1. 11	34	15 13	26	24 27	2	8. 9. 18	8. 2	8	27.46	14	♌ 7. 16	3 34	20.2[illegible]
21	De. 1	1. 10	33	15.11	26	25.10	1	9. 10.21	9. 18	6	26.34	29	19.31	2 44	20.5[illegible]
22	2	1. 10	33	15. 9	26	25.54	1	10.11.26	10.33	4	25.47	32	♍ 1. 30	1 48	21.2[illegible]
23	3	1. 10	33	15. 8	25	26.37	O M	11.12.33	11.49	1	25.15 Dir.	35	13.18	0 49 S	21.5[illegible]
24	4	1. 10 Dir.	33	15. 7	25	27.20	O	12.13.41	13. 5	M I	25.19	38	25. 2	0 15	22.3[illegible]
25	5	1. 10	32	15. 5	25	28. 4	1	13.14.50	14.20	3	25.25	41	♎ 6 48	1 15	23. [illegible]
26☾	6	1. 10	32	15. 4	25	28 47	1	14.16. 0	15.36	6	25.37	43	18.41	2 14	23.19
27	7	1. 10	32	15. 3	24	29 31	2	15.17.10	16.51	8	25.55	D 41	♏ 0. 46	3 7	23.24
28	8	1. 10	32	15. 3	24	♐ 0. 14	3	16.18.21	18. 7	10	26.19	38	13. 8	3 52	23.1[illegible]
29	9	1. 11	31	15. 2	24	0. 58	3	17.19.32	19.23	13	26.50	35	25.47	4 28	22.4[illegible]
30	10	1. 11	31	Dir. 15. 2	23	1. 41	4	18.20.43	20.38	15	27.27	33	♐ 8. 47	4 50	22. 4

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Occi.	♂ Oriét.	☉	♀ orien	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Nov.* O. Sa.				☌ 3.0				11 Martin.
2 O. Anim.	△ 3					☌ 21.	Vcunx ♃♀	12
3 Theophil.		△ 6						13
4	□ 9.						Bq ☉♃	14 Fridericus
5 *A. 23. p. Tr.*		□ 11.	✶ 8		✶ 9		(in Td ♄ ferè	15 *D. 24. p. Tri.*
6 Leonhar.	✶ 15			✶ 2			☿ Stat. in SS. ♂ &(	16
7 Florent.		✶ 16	□ 15.			✶ 7		7
8				□ 10.17	□ 5		Vcunx ♃♂.	8 Gelasius
9 Theodor.			△ 22			□ 11		19 Elisabeth
10 Mart. Lu.	☌ 22			△ 17	△ 11		☽☋	20
11 Mart. Ep.		☌ 23				△ 10.	☽ Perig.	21 Præs M.
12 *A. 24. p. T.*								22 *D. 25. p. Tr.*
13							△☉♄ 5.	23 Clemens
14 Frideric.			☍ 7				△♄♀ 14.	24
15 Leopold.	✶ 1			☍ 4.46	☍ 2	☍ 6.	☌☉☿ 5 Bq ♃♂	25 Cathar.
16		✶ 1.				Oriēt	☌♀☿ 1	26 Conradus
17	□ 5						△♄☿ 9	27
18 Gelasius		□ 6.	△ 22					28
19 *A. 25. p. T.*	△ 12.					△ 7.		29 *D. 1. Adv.*
20		△ 15		△ 2	△ 1.		☌☉♀ 11	30 Andreas
21 Obl. Mar.			□ 12		occid	□ 13	☌♂☿ 22	1 *Decembr.*
22 Cæcilia				□ 19.20	□ 20.		(Td ♄♀)	2 Candidus
23 Clemens							☽ ☊ (Td ☉♄ &(	3
24	☍ 12.		✶ 5			✶ 0.	☿ Statio. ☽ Apo.(	4 Barbara
25 Catharin.		☍ 17		✶ 14	✶ 17		△♃♀ 14. ♄ Statio.	5
26 *A. 26. p. T.*							△☉♃ 18.	6 *D. 2. Adv.*
27								7
28								8 Concep. M.
29 Saturnin.	△ 10		☌ 10			☌ 2	△♄♂ 7.	9 Joachim.
30 Andreas		△ 11		☌ 18.40	☌ 23			10

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit	☿ Lat	☽ Longit.	☽ Latit.	☊ Longit
		♈	M. D	♈	M. D	♐	M A	♐	♐	M A	♏	S D	♐	S D	♍
		G. M.	Z	G. M.	I	G. M.	O	G. M. S.	G. M.	O	G. M.	Z	G M	G. M.	G. M.
1	11	1. 12	31	15. 2	23	2. 25	4	19.21.55	21.54	17	28.12	30	22 6	4 58	21.1
2	12	1. 13	31	15. 3	23	3. 8	5	20.23. 8	23. 9	20	29. 2	22	♑ 5. 40	4 50	20.2
3 ☉	13	1. 14	31	15. 3	22	3. 52	6	21.24.23	24.25	22	29 58	15	19.26	4 23	19.49
4	14	1. 15	30	15. 4	22	4. 35	6	22.25.39	25.41	24	♐ 0. 58	7	♒ 3. 20	3 42	19.30
5	15	1. 16	30	15. 5	21	5. 18	7	23.26.56	26.56	26	2. 2	0	17 29	2 46	19.32
6.	16	1. 17	30	15. 7	21	6. 2	8	24.28.13	28.12	29	3. 9	I 52	♓ 1. 19	1 41	19.53
7	17	1. 18	30	15. 8	21	6. 45	8	25.29.30	29.27	31	4. 19	44	15.20	0 29	20.2
8	18	1. 20	29	15.10	21	7. 28	9	26.30.47	♑ 0. 43	33	5. 31	36	29 21	M 0 44	21.1
9	19	1. 21	29	15.12	21	8. 11	10	27.32. 5	1. 59	35	6. 45	28	♈ 13.23	1 55	21.54
10 ☉	2.	1. 23	29	15.14	20	8. 54	10	28.33.23	3. 14	38	8. 1	20	27.26	2 24	22.2
11	21	1. 25	29	15.16	20	9. 37	11	29.34.41	4. 30	40	9. 20	12	♉ 11.27	3 52	22.38
12	22	1. 27	28	15.19	20	10.20	12	♑ 0. 36. 0	5. 45	42	10.41	5	25 27	4 30	22.31
13	23	1. 29	28	15.21	19	11. 3	12	1. 37.19	7 1	44	12. 3	0 57	♊ 9. 20	4 53	22.
14	24	1. 31	28	15.24	19	11.46	13	2. 38.38	8. 17	46	13.25	49	23 4	D 4 59	21.2
15	25	1. 33	28	15.27	19	12.28	14	3. 39.57	9. 32	48	14.48	42	♋ 6. 33	4 47	20.3
16	26	1. 36	27	15.30	18	13.11	14	4. 41.17	10.48	50	16.12	34	19 44	4 20	19.4
17 ☉	27	1. 38	27	15.34	18	13.54	15	5. 42.37	12. 3	52	17.37	26	♌ 2. 35	3 40	19.
18	28	1. 41	27	15.37	18	14.37	15	6. 43.57	13.19	54	19. 3	18	15. 7	2 49	18.4
19	29	1. 43	27	15.41	17	15.20	16	7. 45.17	14.35	56	20.29	10	27.21	1 54	18.43
20	30	1. 46	26	15.45	17	16. 2	17	8. 46.37	15.50	58	21.56	2	♍ 9. 20	0 53	18.5
21	31	1. 49	26	15.49	17	16.45	17	9. 47.56	17. 6	0	23.24	M 6	21. 9	S 0 9	19.1
22	Ian 1	1. 52	26	15.54	17	17.27	18	10.49.15	18.22	1	24.52	13	♎ 2. 54	1 10	19.5
23	2	1. 55	26	15.58	16	18.10	19	11.50.34	19.37	3	26.21	20	14 40	2 10	20.2
24 ☉	3	1. 58	26	16. 3	16	18.52	19	12.51.53	20.53	4	27.50	27	26 32	3 3	20.5
25	4	2. 1	25	16. 7	16	19.35	20	13.53.12	22. 8	6	29 20	34	♏ 8. 38	3 50	21.2
26	5	2. 4	25	16 12	15	20.17	21	14.54.31	23.24	7	♑ 0 51	41	21. 1	4 26	21.4
27	6	2. 8	25	16.18	15	21. 0	21	15.55.49	24.39	9	2. 22	47	♐ 3. 45	4 51	21.4
28	7	2. 11	25	16.23	15	21.42	22	16.57. 7	25.55	10	3. 54	52	16.54	5 2	21.3
29	8	2. 15	24	16.29	14	22.25	23	17.58.24	27.10	12	5. 26	58	♑ 0. 25	4 56	20.
30	9	2. 19	24	16.34	14	23. 7	23	18.59.41	28.26	13	6. 58	I 4	14.19	4 33	20.1
31 ☉	10	2. 23	24	16.40	14	23.49	24	20.0. 58	29 41	15	8. 31	10	28.29	3 5	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Occi.	♂ Oriēt.	☉	♀ occid	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Decembr.*	□16							11
2 Candidus		□16						12
3 *A.1.adv.*	✱20					✱19.	(☿ Elong Max	13 *D.3.Advent.*
4 Barbara		✱18	✱20				△♄☿6. (	14 Nicasius
5				✱11	✱18		Td♃♀	15
6 Nicolaus			□8.			□3.		16
7				□:8.45			☽ Perig. ☽☋	17
8 Conc. Ma	☌3.		△14.		□2.	△11.	□♄♀11. Td☉♃	18 Christoph.
9 Joachim.		☌3						19
10 *A.2.adv.*				△2	△11			20 *D.4. adve.*
11 Damasus							☌♂☿11	21 Thomas
12 Epimach.	✱10.						□☉♄21	22 Theodos.
13 Lucia		✱:0.	☍3			☍5		23
14 Nicasius	□15			☍18.26			Td♄☿	24
15		□16.			☍6		△♃☿11.	25 Nativ Ch.
16	△22						Td♄♂	26 Stephan.
17 *A.3.adv.*			△23					27 *D.* Jo. Ev.
18 Christop.		△1.0				△9		28 Infant.
19				△23			△♃♂13 □♃♀23	29
20			□14.		△12.		SS♂♀ ☽☊	30 David
21 Thomas	☍22					□5	☽ Apog.	3 Sylverius
21 Theod.				□17.41				1 *Ian. A.C 1644*
23		☍2.	✱7.		□11		Td♄♀	2
24 *A.4.adv.*						✱3	Td♃☿	3 C. Dom.a F.
25 Nat. Chr.				✱11				4 Telesph.
26 Stephan.	△21				✱5		□♄☿ 20	5 Simeon
27 Joan. Ev.		△23					□☉♃9.	6 Epiphan.
28 Infant.			☌9					7 Julianus
29	□3					☌10		8 Erhardus
30 David		□4		☌8.33				9
31 *A.*Sylver.	✱7				☌2		Td☉♄	10 *C.1.p. Epip.*

Radices mediorum motuum Planetarum ad Meridianum Uraniburgicum, & ad meridiem Calendar. Januar. Anni Juliani & Æræ Christianæ 1643. spectantes, ex Tabb. Rudolphinis Kepleri, observationibus Nobilissimi Tychonis innitentibus, excerptæ.

	S.	°	′	″
Præcessio Æquinoctiorum à prima ♈ stella	0	28	12	42
Longitudo media ☉ ab Æquinoctio verno	9	20	44	51
Apogæum Solis	3	6	27	16
Longitudo media ☽	6	6	6	22
Apogæum Lunæ	4	18	44	12
Nodus Ascendens Lunæ	0	14	10	17
Longitudo media ♄	0	2	17	35
Aphelium Saturni	8	26	50	34
Nodus Boreus Saturni	3	21	49	59
Longitudo media ♃	11	25	57	1
Aphelium Jovis	6	7	25	3
Nodus Boreus Jovis	3	5	28	25
Longitudo media ♂	2	6	29	8
Aphelium Martis	4	29	46	46
Nodus Boreus Martis	1	17	12	22
Motus medius ♀	2	29	43	49
Aphelium ♀	10	2	9	0
Nodus Ascendens ♀	2	13	33	39
Motus medius ☿	6	23	59	14
Aphelium Mercurij	8	14	3	11
Nodus ascendens Mercurij	1	13	25	3

FINIS

Ephemeridis ad Annum Christi 1643.

EPHEMERIS
MOTUUM COELESTIUM
ad annum æræ Christianæ M. DC. XLIV.

Annus hic est Bisextilis, cujus Character est Periodus Scaligerana 6357.

atq; Numerantur

A Condito Mundo secundum Sethi Calvisij supputationem. Anni	5593	Ab obitu Alexandri Magni.	1967.
A Diluvio.	3937.	Ab anno Juliano.	1688.
Ab Exitu Israëlitarum ex Ægypto.	3141.	A passione & morte Christi.	1611.
Ab anno Nabonazaræo.	2392.	Ab anno æræ Diocletianæ.	1360.
Ab anno Olympiadico.	2419.	Ab Hegira seu fuga Mahometis.	1053.
		A Correctione Calendarij Gregor.	62.

In Juliano.		*In Gregoriano.*
11.	Aureus Numerus.	11.
1.	Cyclus Solis.	1.
GF.	Literæ Dominicales.	CB.
12.	Indictio Romana.	12.
1.	Epactæ.	21.
9. H. 6. d.	Intervallum minus.	9. H. 1. d.

Festa mobilia & immobilia secundum utrumq; Calendarium, Julianum & Gregorianum, ad dies suos ascripta in Ephemeridibus inveniuntur.

Hoc anno Ingressus Solis in quatuor puncta Cardinalia, ad Meridianum Uramiburgicum & tempus apparens, accidit stylo Juliano: in Signum

♈	Die 10 Martij.	H. 10.	Min. 15.
♋	Die 10 Junij.	H. 13.	Min. 36.
♎	Die 12 Septem.	H. 4.	Min. 11.
♑	Die 10 Decem.	H. 15.	Min. 46.

Bis hoc anno Sol obſcurabitur, Luna verò nunquam: cùm enim hîc duo interlunia quaſi centralia unius ſemiſtris interſtitio contigant, unum ante ☉is apogæum, alterum poſt illud: iccirco toto hoc anno nullum accidet plenilunium eclipticum, ſicut de hac regula etiam in Eclipſigraphia monitum eſt. Geminæ huius Eclipſis calculum & loca, in quibus apparebit, more ſolito ſubjiciam.

Calculus prioris Eclipſis ☉.

Media ☉ & ☽ conjunctio fiet Uraniburgi d. 27 Febr S.V. h. 9 min. 19 ſec. 28 à meridie. Interſtitium inter ver. & med. ☌ addend. eſt 6 hor. 32/20//. Tempus apparens igitur accidet 6 hor. 48/12// poſt merid, eodem die 27 Febr. quo tempore invenitur Anomalia Æquinoct 3 Sex. 20 gr. 55/2//. Æquatio Æquinoct. addend. 9/48//. Anomalia ☉ 4 Sex. 10 gr. 29/53//. Coæquata Anomalia ☽ 2 Sex. 43 gr. 7/38//. Coæquatus motus Latitud. ſeu Argumentum Latit. ☽ 3 Sex. 2 gr. 12/59//. Latitu. ☽ vera M. A. 11/36//. Luminaria tunc verſantur in 18 gr. 56/20// ♓. Apud nos autem hæc Eclipſis non apparebit, quia ☉ intra Horizontem ſubmerſus eſt. Ab illis verò in 90 Eclipticæ gradu, ubi vera & viſa ☌ Luminarium coincidit, obſervabitur, qui nobis ſunt Occidentaliores per 6 hor. 33/4//. horâ à meridie 0 min. 15 ſec. 8. In Longitudine terræ 290 gr. 19/& Latitud. Auſtrali 13 gr. Ad hoc enim tempus & dictum locum ex data diſtantia Horizontis & polorum 77 gr. Complemento Declin. ☉ 85 gr. 30/ Diſtant. ☉ à M.C. 3 gr. 47/. elicitur Altitudo Luminar. 80 gr. 37/. Parallaxis ☉ 0/30//. Parall ☽ 10/24//. ☽ à ☉ in Septentr. vergens 9/54//. Proinde Latitudo ☽ viſa relinquitur Meridiana 1/42//. Cumq; Sd ☉ detur 15/20//. Sd ☽ 17/15//. aggreg. SSdd. 32/35//. relinquitur pars deficiens 30/53//. & cùm Diameter ſit ferè totidem partium, videlicet 30/40//. apparet, hanc Eclipſim fore totalem & centralem 12 digitot. & horribilẽ aſpectu in regionibus Peruanæ Americæ Auſtralis, in Cambibylchas, Gnaytam, Los Sorar, Los Reyor, in Inſula del Challao, in S. Jago, in Lima, Paruca, in Cuſco, in la Baranca, in la Naſca, & in locis mari del Sur adjacentibus. Durationis autem tempus in hac Eclipſi colligitur ex parallaxi Longitudinis ☽ ad 1 hor. ☌ viſæ & veræ retro: ubi iterum dantur hæc tria: 1. Diſtantia Horizontis & polorum 77 gr. 2. Complem. Declin. ☽ 85 gr. 17/ 3. Diſtantia ☽ à M. C. 10 gr. 48/. Hinc igitur per ſolutionem unius Trianguli Obliquanguli Sphærici, per *caſum 3 cap 7. Pædiæ Aſtronomicæ, in hac altera parte Ephemeridum*, colligitur Altitudo ☽ 76 gr 30/. quæ & citra errorem Altitudini ☉ applicari poteſt. Proinde datur Parallax. ☉ 0/42//. ☽ 15/18//. ☽ à ☉ in Boream tendens 14/36// Diſtantia ☽ ab Horoſcopo 76 gr. 58/. Angulus Eclipticæ cum verticali 15 gr 22/50//. Parallax. Longitud. ☽ 14/4//. verus motus horar. ☽ 33/17//. viſus 19/13//. Scrupula Incidentiæ 31/32//. & tempus Incidentiæ 1 hor. 41/35//. Durationis tempus 3 horarum, 23/10//. prolixius per dodrantem horæ juxta exquiſitum calculum Tychonicum, quàm Dn. Origanus adinvenit:

Calcu-

Media Luminar. ☌ fit die 22 Augusti S. V. h 4 min. 43. sec. 47. p. m. Intervallum inter veram & visam ☌ subtrahendum 10 hor. 57/34//. Tempus apparens veræ ☌ igitur accidet die 21 Augusti 7 hor. 39/48//. quo tempore invenitur Anomalia ☉ 1 Sex. 4 gr. 24/35//. Coæquata Anomalia ☽ 5 Sex. 13 gr. 37/22//. Locus Luminarium verus 9 gr. 5/37 // ♍. Argumentum Latitud. ☽ 0 Sex. 1 gr. 42/46//. Latitudo ☽ vera S. A. 8/57//. Origanus quidem ex calculo Prutenico hanc Eclipsin manè in nostro Horizonte circa finem sese nobis aliquomodo oblaturam indicat; calculus verò Tychonicus clarè ostendit, in Meridiano Uraniburgico & vicinis locis defectum ☉ nullum appariturum: quippe ex Parallaxi Longitudinis ☽ ad tempus apparens veræ ☌ deprehenditur ☉lem Uraniburgi demum post finem visæ ☌ supra Horizontem elevatum iri: at qui sunt per duas horas Uraniburgo Orientaliores, e. g. qui habitant in Muscovia & Moscua Russorum Magni Ducis, in regione Russia Wologda, oriens ☉ ad dodrantem sui disci ferè obscurabitur; qui enim subjecti sunt Longitudini loci 66 gr. 42/ & qui habitant Tripoli Syriæ, in Alepo, in Cypro, & reliquis confinibus Insulis, in Africæ regionibus, quæ Nilo fluvio adjacent, ut in Bankasso, Boleguanze, per montem Amaram, per montem Quavam, quique habitant ad paludem Mœotidem, in extrema Lapponia, in ponto Euxino, ibi etiam ☉ in ipso ortu ab interpositu Lunæ ad dodrantem sui corporis propemodum deficiet. Cæterum in Longitudine loci 135 gr. 58/ & Latitud. 18 gr. Septentrionali vera ac visa ☌ in 90 Eclipticæ gradu præcisè concurrit: nam ibidem circiter 12 Meridianã, 16/40//. hæc ☌ fiet. Illa autem loca Uraniburgo per 6 hor. 36/52 // sunt Orientaliora; ubi ex distantia polor. & Horizontis 72 gr. Complem. Declin. ☉ 80 gr. 48/30//. Distantia ☉ à M C. 4 gr. 10/. colligitur Altitudo Luminar. 79 gr. 23/. Parall. ☉ 0/32// ☽ 11/10//. ☽ à ☉ in Meridiem vergens 10/38//. Latit. ☽ visa Merid. 1/41//. Sd ☉ 15/8//. ☽ 15/36//. Aggreg. SSdd. 30/44//. Pars deficiens 29/3//. Digiti Ecliptici 11 min. 31. Duratio sese ultra 3 horas extendit, & prioris defectionis ☉ tempus exæquat. Quocirca quæ loca adjacent lacui, qui Golfo de Pengula, (olim sinus Gangeticus, quia Ganges fluvius in illum exoneratur) quæq; sunt in vicina Narsinga, in Pegu, Jancona, in Sian, & finibus Chinæ Australibus, qualia sunt in Cambaja, Chavoja, &c. iis tantus defectus ☉ erit exspectandus. In occasu videbunt deficientem ☉, qui in America Septentrionali degunt, in regno Anian & Quivira, in Insulis des Ladrones, in nova Guinea: ibi enim ☉ deficiens circa occiduum Horizontem submergetur. Utinam hisce in locis Astronomi vigilarent, hanc Eclipsin debito modo considerarent, & cum Europæis Astronomis communicarent: sic enim bono Astronomico & Geographico magnoperè consulerent.

JANUA-

Stylo Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit	☿ Lat	☽ Longit.	☽ Latit.	☊ Longit
		♈	M. D Z	♈	M. D I	♐	M A O	♑	♒	M A I	♑	M A I	♒	S D	♍
		G. M		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M.	G. M.	G. M.
1	11	2. 28	24	16.45	14	24.31	25	21.2. 16	0. 52	16	10. 3	16	12.51	2 54	18.32
2	12	2. 32	23	16.52	13	25.15	25	22.3. 9	2. 8	17	11.35	21	27.17	1 49	18. 2
3	13	2. 36	23	16.58	13	25.59	26	23.4. 45	3. 23	18	13. 8	25	♓ 11.44	0 34 M	17.55
4	14	2. 40	23	17. 5	13	26.43	27	24.5. 59	4. 38	19	14.42	30	26 4	0 43	18.11
5	15	2. 44	23	17.12	13	27.27	27	25.7. 12	5. 53	20	16.18	34	♈ 10.18	1 56	18.42
6.	16	2. 48	23	17.19	12	28.11	28	26.8. 25	7 9	21	17.55	39	24.21	3 2	19.24
7 ☾	17	2. 52	22	17.26	12	28.56	29	27.9. 36	8. 24	22	19.33	42	♉ 8. 15	3 56	20. 6
8	18	2. 57	22	17.34	12	29 40	29	28.10.47	9. 39	23	21.13	46	22 0	4 36	20.41
9	19	3. 2	22	17.41	12	♑ 0. 24	30	29 11.56	10.54	24	22.55	49	♊ 5. 36	4 59	21. 2
10	20	3. 6	22	17.49	11	1. 9	31	♒ 0. 13. 5	12. 9	25	24.38	52	19. 3	5 7 D	21. 3
11	21	3. 11	22	17.57	11	1. 53	31	1. 14. 12	13.25	26	26.19	55	♋ 2. 19	4 56	20.46
12	22	3. 16	22	18. 5	11	2. 37	32	2. 15.19	14.40	26	27.57	57	15.24	4 32	20.12
13	23	3. 21	21	18.13	10	3. 22	33	3. 16.25	15.55	27	29 34	59 Z	28 15	3 53	19.2[illegible]
14 ☉	24	3. 26	21	18.21	10	4. 6	33	4. 17.30	17.10	27	♒ 1. 10	0	♌ 10 51	3 4	18.41
15	25	3. 31	21	18.29	10	4. 51	34	5. 18.34	18.25	27	2. 44	2	23 16	2 6	17.59
16	26	3. 36	21	18.38	10	5. 35	35	6. 19 37	19.41	28	4. 20	4	♍ 5. 22	1 3	17.27
17	27	3. 41	21	18.46	9	6. 20	35	7. 20.37	20.56	28	5. 59	3	17 20	0 0 S	17.11
18	28	3. 46	20	18.55	9	7. 5	36	8. 21.36	22.11	28	7. 41	3 D	29 9	1 4	17. 9
19	29	3. 52	20	19. 4	9	7. 49	37	9. 22.35	23.26	29	9. 25	3	♎ 10 55	2 5	17.22
20	30	3. 57	20	19.13	9	8. 34	37	10.23.33	24 41	29	11.11	2	22 42	3 1	17.46
21 ☉	31	4. 2	20	19.22	8	9. 19	38	11.24.29	25.56	30	12.57	2 1	♏ 4. 35	3 48	18.19
22	Fe. 1	4. 7	20	19.31	8	10. 4	39	12.25.24	27.11	30	14.4[illegible]	[illegible]9	16.39	4 28	18.55
23	2	4. 13	20	19.41	8	10.49	39	13.26.17	28.26	29	16.2[illegible]	6	29 1	4 55	19.30
24	3	4. 18	19	19.50	8	11.34	40	14.27. 9	29 41	29	18.15	[illegible]	♐ [illegible].43	5 11	19.58
25	4	4. 24	19	20. 0	7	12.19	41	15.28. 0	♓ 0 56	28	20. 2	[illegible]1	24 51	5 9	20.14
26	5	4. 30	19	20. 9	7	13. 4	41	16.28.49	2. 11	2[illegible]	21.50	[illegible]8	♑ 8. 25	4 49	20.11
27.	6	4. 36	19	20 19	7	13.49	42	17.29.37	3. 25	27	23.3[illegible]	42	22 25	4 15	19.4[illegible]
28 ☉	7	4. 42	19	20.29	7	14.35	43	18.30.23	4. 40	27	25.2[illegible]	37	♒ 6 47	3 22	19. [illegible]
29	8	4. 48	18	20.39	6	15.20	43	19.31. 8	5. 55	27	27.10	31	21.27	2 15	[illegible]
30	9	4. 54	18	20.49	6	16. 6	44	20.31.50	7. 10	26	29. 5	25	♓ 6. 17	0 58 M	17.1[illegible]
31	10	5. 1	18	21. 0	6	16.51	45	21.32.30	8. 25	26	♓ 0 . 3	19	21. 9	0 23	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid.	♃ occid.	♂ Orien.	☉	♀ occid.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Circumcis		✱6.	✱ 20.					11 *Ianuarii*
2							✱♄♀ 8	12
3				✱ 20.		✱ 2.	☽ Perig. ☽☋	13 Hilarius
4 Telesph.	☌ 11		□ 1		✱16			14 Felix
5 Simeon		☌ 12				□ 11.	□♃☿ 14.	15
6 Epiphan.			△10.	□3.20				16 Marcell.
7 *G.1.p.Ep.*					□ 0	△ 22.		17 *C.2.p.Ep.*
8 Erhardus								18 Prisca
9		✱22			△10.			19
10 Paul.Er.				△22				20 Fab.Seb.
11 Hyginus	✱1.							21 Agnes
12		□5					□♄♂ 23.	22 Vincent.
13 Hilarius	□10		☍ 10.	☍10.24		☍ 3.	✱☉♄ SS☉♂	23
14 *G.2.p Ep.*		△ 14.			☍13.			24 *C.Sept.*
15	△20.						✱♄☿2 ✱♃♀ 1.	25 Conv.P.
16 Marcell.			△0.				☽☊	26 Polycar.
17 Antonius							SS♂☿ ☽Apog.	27
18 Prisca			□17	△20.		△ 20.	☌☉☿ 22.	28
19		☍ 17				occid.		29
20 Fab. Seb.	☍ 23				△ 4.			30 Adelg.
21 *G.3.p Ep.*			✱10	□4.49		□ 19.		31 *C.Sexag.*
22 Vincent.					□ 23			1 *Febr.*
23								2 Purif. M.
24 Timoth		△ 15		✱ 5.		✱ 14	✱♃☿ 23.	3 Blasius
25 Conv.P.	△ 17				✱12			4
26 Polycarp.		□ 20.	☌ 8.					5 Agatha
27	□20.							6 Doroth.
28 *G 4.p Ep*		✱ 22.		☌ 20.36			SS ♄♀	7 *C.E.M.*
29	✱ 22					☌ 11		8
30 Adelgun.			✱ 17		☌ 18.		✱☉♃8 ☽☋	9 Apollon.
31	☌ 22.						☽ Perig.	10 Ciner.

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M. D Z	♃ Longit. ♈ G. M.	Lat M. D I	♂ Longit ♑ G. M.	Lat M A O	☉ Longitudo. ♒ G. M. S.	♀ Longit ♓ G. M.	Lat M D I	☿ Longit ♓ G. M.	Lat M D I	☽ Longit. ♈ G M.	Latit. M A G. M.	☊ Longit ♍ G. M.
1	11	5. 8	18	21.11	6	17.37	45	22.33. 9	9. 40	26	2. 41	13	5. 57	1 42	16.22
2	12	5. 14	18	21.22	5	18.22	46	23.33.47	10.55	25	4. 30	4	20 33	2 54	16.30
3	13	5. 21	18	21.33	5	19. 7	47	24.34.23	12. 9	24	6. 19	O 55	♉ 4. 53	3 54	16.56
4	☉ 14	5. 27	18	21.44	5	19.52	47	25.34.57	13.24	23	8. 7	45	18 55	4 38	17.35
5	15	5. 33	18	21.55	5	20.37	48	26.35.29	14.39	22	9. 53	36	♊ 2. 37	5 5	18.16
6	16	5. 39	17	22. 6	5	21.22	49	27.36. 0	15.53	20	11.37	27	16. 3	5 16	18.54
7	17	5. 46	17	22.18	5	22. 7	49	28.36.29	17. 8	19	13.19	14	29.13	D 5 8	19.20
8	18	5. 52	17	22.29	4	22.52	50	29.36.56	18.22	18	14.59	2	♋ 12 8	4 45	19.31
9	19	5. 59	17	22.41	4	23.37	51	♓ 0. 37.21	19.37	17	16.35	S 10	24 50	4 8	19.24
10	20	6. 6	17	22 52	4	24.22	51	1. 37.44	20.51	16	18. 9	22	♌ 7. 20	3 21	19. 1
11	☉ 21	6. 13	17	23. 4	4	25. 7	52	2. 38. 6	22. 6	15	19.38	35	19.[illegible]	2 25	18.25
12	22	6. 19	17	23.16	4	25.52	52	3. 38.25	23.20	14	21. 3	49 1	♍ 1. 38	1 23	17.41
13	23	6. 26	17	23.28	3	26.38	53	4. 38.42	24.35	12	22.23	4	13.48	0 37	16.56
14	24	6. 33	17	23.40	3	27.23	54	5. 38.57	25.49	10	23.36	19	25.41	S 0 49	16.18
15	25	6. 40	17	23.52	3	28. 9	54	6. 39.10	27. 4	9	24.41	34	♎ 7. 31	1 52	15.49
16	26	6. 47	16	24. 4	3	28.54	55	7. 39.21	28.18	7	25.38	48	19 18	2 50	15.33
17	27	6. 54	16	24.16	3	29 40	56	8. 39.31	29 33	5	26.26	Z 1	♏ 1. 9	3 41	15.35
18	☉ 28	7. 1	16	24.28	3	♒ 0. 26	56	9. 39.39	♈ 0. 47	4	27. 6	14	13. 4	4 24	15.50
19	29	7. 8	16	24.40	2	1. 12	57	10.39.46	2. 2	2	27.38	27	25.10	4 55	16.17
20	M. 1	7. 15	16	24.53	2	1. 58	58	11.39.51	3. 16	0	28. 2	39	♐ 7. 30	5 13	16.52
21	2	7. 22	16	25. 5	2	2. 44	58	12.39.53	4. 30	D 59	28.18	52 3	20. 8	5 17	17.31
22	3	7. 29	16	25.18	2	3. 30	59	13.39.52	5. 44	56	28 24	12	♑ 3. 10	D 5 4	18. 6
23	4	7. 37	16	25.30	2	4. 15	I 0	14.39 48	6 .59	54	Retr. 28.14	12	16 38	4 36	18.32
24	5	7. 44	16	25.43	1	5. 1	0	15.39.42	8. 13	52	28. 2	18	♒ 0. 32	3 50	18.41
25	☉ 6	7. 51	16	25.56	1	5. 47	1	16.39.34	9. 28	50	27.42	23	14.53	2 49	18.28
26	7	7. 59	15	26. 8	1	6. 33	1	17.39.25	10.42	48	27.14	29	29 36	1 35	17.53
27	8	8. 6	15	26.21	1	7. 19	2	18.39.13	11.56	46	26.37	28	♓ 14 36	0 13	17. 1
28	9	8. 13	15	26.34	1	8. 5	3	19.39. 0	13.10	43	25.51	27	29 43	M 1 10	16. 5
29	10	8. 21	15	26.46	1	8. 51	3	20.38.45	14.24	41	25. 4	26	♈ 14. 50	2 29	15.18

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid.	♃ occid.	♂ Orien.	☉	♀ occid.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Brigitta			□ 20					11 *Febr.*
2 Purif.M.		☌ 1.		✶5.			SS♄☿	12
3 Blasius					✶13.	✶3		13
4 *G.5.p.Ep.*			△ 2	□ 12.36				14 *C. Invoc.*
5 Agatha	✶5				□23.	□ 15		15 Faustin.
6 Doroth.		✶11		△23				16 Juliana
7	□12						□♃♂8	17
8		□20	☍ 21.		△13	△6		18 Concor.
9 Apollon								19
10 Scholast.	△1.							20
11 *G.6.p.Ep.*		△7					SS ♃♀	21 *C. Rem.*
12				☍4. 0				22 Cath. P.
13						☍17.	☽Apog. ☽☋	23
14 Valenti.	☍22		△3.		☍0		SS♃☿	24
15 Faustin.							☿Digr.max à☉	25 Matthias
16 Juliana		☍10	□21				(SS ☉♄	26
17				△16.			✶♂♀ 6	27
18 *G.Sept.*								28 *B.Oculi*
19	△23.		✶16.		△14.	△5		29 Roman.
20				□8.36				1 *Mart.*
21		△9				□15		2 Simplic.
22 Cath P.	□8			✶20.	□5			3
23		□15.				✶20	☌♄♀3.	4 Adrianus
24	✶12		☌8		✶14			5
25 *F. Sex.*		✶18						6 *B. Lætare*
26								7 Perpetua
27				☌6.52		☌12	☽☊ Eclips. ☉	8
28 Leand.	☌13.		✶14		☌23		✶♄♂5 ☽Perig.	9
29 Roman.		☌19						10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	♄ Lat. M D Z	♃ Longit. ♈ G. M.	♃ Lat. M D I	♂ Longit. ♒ G. M.	♂ Lat. M A I	☉ Longitudo. ♓ G. M. S.	♀ Longit. ♈ G. M.	♀ Lat. M D O	☿ Longit. ♓ G. M.	☿ La. S D -3-	☽ Longit. ♈ G. M.	☽ Latit. M A G. M.	☊ Longit. ♍ G. M.
1	11	8. 28	15	26.59	0	9. 37	4	21.38.27	15.37	39	24.14	25	29.48	3 35	14.52
2	12	8. 36	15	27.12	0	10 23	5	22.38. 7	16.51	36	23.22	17	♉ 14 29	4 27	14.51
3 ☉	13	8. 43	15	27.25	0	11. 9	5	23.37.45	18. 5	34	22.28	8	28.47	5 1	15.10
4	14	8. 51	15	27.39	0	11.55	6	24.37.21	19.19	31	21.32	0 -2-	♊ 12.39	5 16 D	15.44
5	15	8. 58	15	27.52	0	12.41	6	25.36.55	20.33	29	20.34	52	26 7	5 13	16.24
6	16	9. 6	15	28. 5	0	13.27	7	26.36.26	21.47	26	19.35	44	♋ 9. 11	5 10	17. 3
7	17	9. 13	15	28.19	0	14 13	7	27.35.55	23. 1	24	18.42	29	21.56	4 20	17.34
8	18	9. 21	15	28.32	0	14 59	8	28.35.22	24.15	21	17.53	15	♌ 4 24	3 34	17.53
9	19	9. 28	15	28.46	59	15.45	8	29.34 47	25.28	18	17. 9	1 1	16.39	2 40	17.56
10 ☉	20	9. 35	15	28.59	59	16 31	9	♈ 0. 34.10	26.42	16	16.33	46	28 43	1 39	17.44
11	21	9. 43	15	29.13	59	17 17	9	1. 33.31	27.55	13	16. 5	32	♍ 10 41	0 36	17.17
12	22	9. 50	15	29 26	59	18. 3	10	2. 32.49	29. 9	10	15.44	17	22 33	0 30	16.38
13	23	9. 58	15	29.40	59	18 49	10	3 32. 4	♉ 0. 22	8	15.29	2 O	♎ 4. 23	S. 1 34	15.34
14	24	10. 5	15	29 54	59	19.35	11	4. 31.17	1. 36	5	15.14	47	16.13	2 34	15.11
15	25	10.12	15	♉ 0. 7	59	20.21	11	5. 30.28	2. 49	S 2	15. 1	31	28. 5	3 26	14.34
16	26	10 20	15	0. 21	59	21. 8	12	6. 29.39	4. 2	1	14 49	16	♏ 10. 1	4 11	14. 9
17 ☉	27	10.28	15	0. 35	59	21.54	13	7. 28 47	5. 16	4	Dir. 14 52	3 M	22. 4	4 46	13.59
18	28	10.35	15	0. 49	58	22 40	13	8. 27.51	6. 29	7	15. 4	11	♐ 4. 15	5 7	14. 4
19	29	10 43	15	1. 2	58	23.26	14	9. 26.52	7. 42	9	15.19	24	16.38	5 14 D	14.24
20	30	10.50	15	1. 16	58	24.12	14	10.25.54	8. 55	12	15.37	37	29 16	5. 8	14.56
21	31	10.58	15	1. 30	58	24 58	15	11.24.52	10. 8	15	15.57	51 1	♑ 12 13	4 44	25 35
22	Apr. 1	11. 5	15	1. 44	58	25.44	15	12.23.49	11.21	18	16.22	1	25 31	4 6	16.14
23	2	11.13	15	1. 58	58	26.30	16	13.22.44	12.34	21	16.53	11	♒ 9. 15	3 12	16.47
24 ☉	3	11.20	15	2. 12	58	27 16	16	14.21.36	13.47	24	17.29	22	23 23	2 6	17. 6
25	4	11.28	15	2. 26	58	28. 1	17	15.20.26	14.59	27	18.10	32	♓ 7. 56	0 49 M	17. 3
26	5	11.36	15	2. 40	58	28 47	17	16.19.14	16. 2	30	18.55	42	22.49	0 32	16.36
27	6	11.44	15	2. 54	57	29.32	18	17.18. 0	17.25	33	19 43	49	♈ 7. 56	1 52	15.48
28	7	11.52	15	3. 8	57	♓ 0. 18	18	18.16.43	18.37	36	20.34	56	23 9	3 5	14.51
29	8	11.59	15	3. 22	57	1. 3	19	19.15.24	19.50	39	21.29	Z 3	♉ 8. 16	4 3	13.55
30	9	12. 7	15	3. 36	57	1. 49	19	20.13. 3	21. 2	41	22.26	10	23 10	4 45	13.25
31 ☉	10	12.15	15	3. 50	57	2. 35	20	21.12.40	22.15	44	23.25	17	♊ 7 42	5 6	13.11

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occi.	♃ occid	♂ orien	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Albinus			□17					11 *Mart.*
2 Simplic.				✱15		✱14	☌☉☿3.	12
3 *F. Eſt M.*	✱14.		△22.			Oriẽt.		13 *B. Iudica*
4 Adrianus				□23.2	✱13	□16		14
5		✱3					SS ♀☿	15
6 Cinerum	□0					△18		16 Cyriacus
7 Perpetua		□12.		△12	□2		SS ☉♃	17 Gertrud
8	△10		☍21					18
9					△19.			19 Joſephus
10 *F. Invoc.*		△0.					SS♂☿ Q♃♂	20 *B. Palmar.*
11						☍10.	☽☊	21 Benedict.
12 Gregor.				☍22.7			☌♃♀7	22
13 Euphraſ.	☍11.						☽ Apog.	23
14			△7				Q♂♀0	24
15		☍4			☍10.			25 An. Mar.
16 Cyriacus			□23.			△9.		26 Caſtulus
17 *F. Rem.*								27 *B. Paſcha*
18	△12.			△9		□21.		28
19 Joſeph.			✱14					29 Euſtach.
20	□21.	△4		□2'.24	△20		☌☉♄ 11	30 Guido
21 Benedict.						✱7	SS♄♀	31
22		□11						1 *Aprilis*
23	✱3.			✱7.	□6			2 Mar. Æg.
24 *F. Ocul.*		✱15	☌7					3 *B. Quaſim.*
25 An. Mar.					✱12.	☌17.	☽☋	4 Ambroſ.
26 Caſtulus							SS☉♀	5
27	☌6			☌15.48			☽Perig.	6
28		☌16	✱12					7 Egeſippus
29 Euſtach.					☌20	✱23		8
30 Guido			□15					9
31 *F. Lęt.*	✱8						☿ Elon. Max. à ☉	10 *B. Miſ. Do*

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♈	M D Z	♉	M D O	♓	M A I	♈	♉	S A O	♓	M A Z	♊	M A	♍
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	12.22	15	4. 4	57	3. 21	21	22.11.15	23.27	47	24.26	24	21 47	5 10 D	13.26
2	12	12.29	15	4. 18	57	4. 7	21	23.9. 49	24.40	50	25.31	27	♋ 5. 23	4 54	13.53
3	13	12.37	15	4. 32	57	4. 53	21	24.7. 20	25.53	53	26.38	31	18 31	4 23	14.30
4	14	12.44	15	4. 47	57	5. 39	22	26 6. 49	27. 5	56	27.47	35	♌ 1. 14	3 40	15. 9
5	15	12,52	15	5. 1	57	6. 25	22	26.5. 16	28.17	59	28 59	39	13.38	2 49	15.43
6	16	12.59	16	5. 15	57	7. 11	22	27.3. 43	29.29	1	♈ 0. 13	42	25 44	1 50	16. 9
7 ☾	17	13. 7	16	5. 29	57	7. 57	23	28.2. 7	♊ 0. 41	4	1. 30	43	♍ 7 41	0 47 S	16.22
8	18	13.14	16	5. 44	56	8. 43	23	29,0. 29	1. 53	7	2. 49	44	19.31	0 16	16 20
9	19	13.22	16	5. 58	56	9. 29	23	29.58.49	3. 5	10	4. 10	45	♎ 1. 19	1 19	16. 1
10	20	13.29	16	6. 12	56	10.15	24	♉ 0. 57. 6	4. 17	13	5. 33	46	13. 7	2 19	15.32
11	21	13.37	16	6. 26	56	11. 1	24	1. 55.21	5. 29	16	6. 58	47	25 0	3 12	14.52
12	22	13.44	16	6. 41	56	11,46	24	2 53.34	6. 40	18	8. 25	45	♏ 6. 58	3 58	14. [illegible]
13	23	13.52	16	6. 55	56	12.32	25	3. 51.45	7. 52	21	9. 54	43	19 4	4 33	13.24
14 ☾	24	13.59	16	7. 9	56	13.18	25	4. 49.55	9. 4	24	11,25	41	♐ 1. 19	4 56	12 5[illegible]
15	25	14. 6	16	7. 23	56	14. 4	25	5. 48. 3	10,15	26	12.58	39	13.43	5 D 5	12 3[illegible]
16	26	14.13	16	7. 38	56	14.49	26	6. 46. 9	11,27	29	14.33	37	26 16	5 0	12.2[illegible]
17	27	14.20	17	7. 52	56	15.35	26	7. 44.16	12.38	31	16.10	33	♑ 9 1	4 40	12.3[illegible]
18	28	14.27	17	8. 6	56	16,21	26	8. 42.19	13.50	34	17.49	28	22. 0	4 6	13. 6
19	29	14 34	17	8. 21	56	17. 6	27	9. 40 20	15. 1	36	19.29	23	♒ 5. 15	3 18	13.43
20	30	14.41	17	8. 35	56	17,52	27	10.38.19	16,12	39	21,11	19	18 49	2 18	14 25
2.⊙	Ma 1	14.48	17	8. 49	56	18.27	27	11.36.16	17 23	42	22.55	14	♓ 2. 42	1 M 8	15. 31
22	2	14.55	17	9. 3	56	19.23	28	12,34.11	18.34	44	24.41	7	16 58	0 7	15.2[illegible]
23	3	15. 2	17	9. 18	56	20, 8	28	13.32, 5	19.45	46	26.29	0 I	♈ 1. 36	1 24	15.33
24	4	15. 9	17	9. 32	56	20,53	28	14.29.58	20,56	47	28 19	53	16 27	2 36	15.14
25	5	15,16	17	9. 46	55	21 39	29	15.27.49	22. 6	49	♉ 0. 11	46	♉ 1. 29	3 38	14.3[illegible]
26	6	15.23	17	10. 1	55	22 24	29	16.25.39	23.17	51	2. 6	39	16.31	4 26	13 3[illegible]
27	7	15.30	17	10.15	55	23. 9	29	17,23.27	24,27	53	4. 2	30	♊ 1. 25	4 53	12.4[illegible]
28 ⊙	8	15.37	18	10.29	55	23.54	30	18.21.13	25.38	55	6. 0	21	16 3	5 2 D	12. 3
29	9	15.44	18	10.43	55	24,40	30	19.18.58	26 48	57	7. 59	12	♋ 0. 11	4 51	11.4[illegible]
30	10	15.50	18	10.58	55	25.25	30	20,16.42	27.58	59	9. 59	3	13.52	4 23	11.4[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt	♃ occid	♂ orien	☉	♀ occid	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Hugo 2 Mar.Æg.	□13	✱22	△21.	✱1		□5	✱♃♂8	11 *Aprilis* 12 Julius
3 4 Ambroſ.	△22.	□7		□10,34	✱15	△17		13 Juſtinus 14 Tiburtius
5 6		△9.		△3	□8.			15 Olympia 16
7 *F. Iudic.* 8			☍0.				☽☊	17 *B. Iubil.* 18 Valerian.
9 10	☍1				△4	☍5.	SS ♃☿ ☽ Apog.	19 20
11 12 Julius		☍23.	△10	☍15.5			SS ♃♀0	21 22
13 Juſtinus 14 *F. Palm.*					☍16	△22		23 Georgius 24 *B. Cant.*
15 Olymp. 16	△1	△22	□1	△21.			SS♄♂ ☌♄☿6 SS ♂☿	25 Marcus 26
17 18 Valerian.	□10		✱13			□15	☌☉♃4. ✱♄♀14	27 Anaſtaſ. 28 Vitalis
19 20	✱16.	□5.		□8.25	△9	✱4.		29 30
21 *F. Paſch.* 22		✱10.	☌4	✱16	□3		☽☋	1 *Maii. B. Rog.* 2
23 Georgius 24 Albert.	☌22				✱8	☌21.	□♂♀20 SS☉♄ ☽Perig.	3 Invent. ✠ 4 Florian.
25 Marcus 26		☌13.	✱10	☌23.52				5 Aſcenſ Ch. 6 Jo.ante p.
27 Anaſtaſ. 28 *F. Quaſ.*	✱23		□4		☌18			7 8 *B. Exaud.*
29 30	□4	✱19	△22.	✱13		✱16	Q ♄♀ ☌♃☿13.	9 10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	♄ Lat M. D Z	♃ Longit. ♉ G. M.	♃ Lat M. D O	♂ Longit ♓ G. M.	♂ Lat M A I	☉ Longitudo. ♉ G. M. S.	♀ Longit ♊ G. M.	♀ Lat S A Z	☿ Longit ♉ G. M.	☿ Lat M D O	☽ Longit. ♋ G. M.	☽ Latit. M D G. M	☊ Longit ♍ G. M.
1	11	15.56	18	11.12	55	26.10	31	21.14.25	29. 8	1	12. 0	54	27. 6	3. 43	12. 4
2	12	16. 2	18	11.26	55	26.56	31	22.12. 6	♋ 0. 18	2	14. 4	44	♌ 9. 52	2 52	12.35
3	13	16. 8	19	11.40	55	27.41	31	23.9. 45	1. 28	3	16.10	34	22.16	1 54	13.12
4	14	16.14	9	11.54	55	28.26	31	24.7. 23	2. 37	5	18.18	24	♍ 4. 21	0 52	13.48
5 ☉	15	16.21	19	12. 8	55	29.12	31	25.4. 59	3. 47	6	20.28	13	16.15	S. 0 10	14.19
6	16	16 27	19	12.22	55	29.57	31	26.2. 33	4. 56	7	22.39	3 S.	28. 3	1 12	14.40
7	17	16.33	19	12.36	55	♈ 0. 42	31	27.0. 7	6. 6	8	24.51	7	♎ 9. 48	2 10	14.48
8	18	16.39	19	12.50	55	1. 27	31	27.57.40	7. 15	10	27. 4	18	21.48	3 3	14 42
9	19	16.45	20	13. 4	55	2. 13	31	28.55.12	8. 24	11	29.18	28	♏ 3 34	3 48	14.20
10	20	16.51	20	13.18	55	2. 58	31	29.52.42	9. 33	12	♊ 1. 33	38	15.40	4 24	13.45
11	21	16.57	20	13.32	55	3. 43	31	♊ 0. 50.10	10.42	13	3. 48	49	27 57	4 48	13. 1
12 ☉	22	17. 3	20	13.46	55	4. 28	31	1. 47.37	11.51	14	6. 4	57 I.	♐ 10 26	4 59	12.15
13	23	17. 9	20	14. 0	55	5. 13	31	2. 45. 3	12.59	14	8. 18	6	23. 7	D 4 54	11.33
14	24	17.15	2	14.14	55	5. 58	31	3. 42.29	14. 7	14	10.30	14	♑ 5 59	4 35	11. 4
15	25	17.21	21	14.28	55	6. 42	31	4. 39.54	15.15	15	12.40	23	19. 1	4 3	10.51
16	26	17.26	21	14.42	55	7. 27	31	5. 37.18	16.23	15	14.48	31	♒ 2. 12	3 16	10.5
17	27	17.31	21	14.56	55	8. 12	31	6. 34 41	17.31	15	16.54	36	15.34	2 18	11.21
18	28	17.36	21	15.10	55	8. 56	32	7. 32. 3	18.39	16	18.58	41	29. 7	1 10	11.59
19 ☉	29	17.41	22	15.23	55	9. 41	32	8. 29.24	19.47	17	21. 0	46	♓ 12.53	M 0 1	12.40
20	30	17.46	22	15.37	55	10.25	32	9. 26.44	20.55	17 D.	23. 0	51	26.55	1 14	13.21
21	31	17.51	22	15 51	55	11.10	32	10.24. 1	22. 3	17	24.58	56	♈ 11.12	2 24	13.50
22	Iun 1	17.56	22	16. 4	55	11.54	32	11.21.18	23.10	16	26.53	58	25.43	3 24	14. 1
23	2	18. 1	22	16.17	55	12.38	32	12.18.34	24.17	16	28.45	59 Z	♉ 10 23	4 12	13.49
24	3	18. 6	22	16.31	55	13.22	32	13.15.50	25.24	15	♋ 0. 34	0	25. 7	4 45	13.13
25	4	18.11	23	16.44	55	14. 6	32	14.13. 5	26.30	14	2. 21	1	♊ 9. 45	4 59 D	12.23
26	☉ 5	18.16	23	16.57	55	14.50	32	15.10.20	27.37	13	4. 5	3 D.	24 11	4 52	11.29
27	6	18.21	23	17. 11	55	15.34	32	16.7. 32	28.43	12	5. 47	0	♋ 8. 16	4 27	10.44
28	7	8.26	23	17.24	55	16.18	32	17.4. 44	29.49	11	7. 26	57	21.57	3 47	10.16
29	8	18.30	23	17.37	55	17. 2	32	18.1. 56	♌ 0. 55	11	9. 2	54	♌ 5. 11	2 58	10. 7
30	9	18.34	24	17.50	55	17.46	32	18.59. 8	2. 1	10	10.36	51	17 59	1 59	10.17
31	10	18.38	24	18. 3	55	18.30	32	19.56.20	3. 6	9	12. 8	48	♍ 0. 24	0 57	10.41

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Orien.	♂ Orien.	☉	♀ occid.	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Phil. Jac.								1 *Maji*
2	△ 12	□ 3				□ 10	SS ♄☿	11 Pancrat.
3 Inv. ✠				□ 1. 56	✱ 20			13 Servat.
4 Florian.		△ 14					☽☊	14
5 *F. Mis. D.*				△ 19.		△ 10.		15 *B. Pent.*
6			☍ 4		□ 15.			16
7	☍ 13.					occid.		17
8							☌☉☿ 17 ☽ Apog.	18 Potent.
9		☍ 19			△ 10.			19
10							✱♂☿ 22.	20
11 Mamert.			△ 12	☍ 6.0.		☍ 14		21
12 *F Iubil.*	△ 12.							22 *B. Trin.*
13 Servatius								23 Desider.
14	□ 2.	△ 5.	□ 0		☍ 16.		✱♃♀ 3	24
15 Sophia							SS ♃☿	25 Urbanus
16		□ 23	✱ 10	△ 6.				26 Corp. Ch
17	✱ 3.					△ 3	□♄♀ 0 ✱♄☿ 7. (	27
18 Potent.				□ 15.46			☽☋ (SS♀☿	28
19 *F. Cant.*		✱ 4			△ 12	□ 16		29 *B. 1. p. Tr.*
20				✱ 2.				30 Wigand
21	☌ 11		☌ 0		□ 19.			31 Petronel.
22						✱ 2	☽ Perig.	1 *Iunii.*
23 Desider.		☌ 10					Q ♄☿	2 Marcellin.
24					✱ 0.		✱☉♂ 11	3 Erasm.
25 Urbanus	✱ 14		✱ 7.	☌ 8.27				4
26 *F. Rog.*						☌ 19		5 *B. 2. p. Tr.*
27	□ 18	✱ 16	□ 13.				Q ♃♀	6
28					☌ 15.		SS ☉♃	7
29			△ 23.				✱☉♄ 13	8 Medard.
30 Asc. D.	△ 1	□ 0		✱ 2			SS ♃♂	9
31 Petron.							☌♄♂ 5 ☽☊	10 Onop hr

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M. D Z	♃ Longit. ♉ G. M.	Lat M. D O	♂ Longit ♈ G. M.	Lat M D I	☉ Longitudo. ♊ G. M. S.	♀ Longit ♌ G. M.	Lat S D Z	☿ Longit ♋ G. M	Lat S D I	☽ Long. ♍ G. M.	Latit. S A G. M.	☊ Longit ♍ G. M.
1	11	18.42	24	18.16	55	19.14	32	20.53.32	4. 12	8	13.38	45	12.31	0 7	11.13
2 ☉	12	18.47	24	18.29	55	19.58	32	21.50.42	5. 17	6	15. 4	39	24.25	1 8	11.49
3	13	18.52	24	18.42	55	20.42	32	22.47.52	6. 22	4	16.28	32	♎ 6. 12	2 8	12.24
4	14	18.56	25	18.55	55	21.26	31	23.45. 1	7. 27	2	17.49	26	17.58	3 0	12.52
5	15	19. 0	25	19. 8	55	22.10	31	24.42.10	8. 32	0 I	19. 7	19	29.48	3 45	13.10
6	16	19. 4	25	19.21	55	22.54	31	25.39.18	9. 36	58	20.22	12	♏ 11.47	4 22	13.14
7	17	19. 8	25	19.33	55	23.37	31	26.36.27	10.40	56	21.34	3 0	23.58	4 46	13. 2
8	18	19.12	26	19.46	55	24.21	30	27.33.35	11.44	54	22.43	53	♐ 6. 25	4 58	12.34
9 ☉	19	19.16	26	19.59	55	25. 4	30	28.30.42	12.48	52	23.49	44	19. 9	D 4 56	11.53
10	20	19.20	26	20.11	55	25.47	30	29.27.49	13.52	50	24.52	34	♑ 2. 7	4 39	11. 5
11	21	19.24	26	20.24	55	26.30	29	♋ 0. 24.56	14.56	48	25.52	24	15.20	4 6	10.18
12	22	19.28	26	20.36	55	27.13	29	1. 22. 3	15.59	44	26.48	12	28.45	3 19	9. 41
13	23	19.32	27	20.49	55	27.56	29	2. 19.10	17. 2	41	27.41	0 N	♒ 12.18	2 20	9. 20
14	24	19.36	27	21. 1	55	28.39	29	3. 16.17	18. 5	37	28.31	12	25.59	1 12	9. 21
15	25	19.40	27	21.13	55	29.22	28	4. 13.23	19. 7	34	29.18	24	♓ 9. 48	0 0 M	9. 49
16 ☉	26	19.44	27	21.26	55	♉ 0. 5	28	5. 10.29	20. 9	31	♌ 0. 1	37	23.38	1 12	10.15
17	27	19.48	28	21.38	55	0. 48	28	6. 7. 35	21.11	27	0. 41	7	♈ 7. 36	2 22	10.5?
18	28	19.52	28	21.50	55	1. 31	28	7. 4. 41	22.13	24	1. 16	58	21.41	3 23	11.4?
29	29	19.56	28	22. 2	56	2. 13	27	8. 1. 47	23.14	21	1. 47	1 8	♉ 5. 52	4 12	12.13
20	30	20. 0	28	22.14	56	2. 56	27	8. 58.52	24.15	17	2. 13	19	20. 8	4 45	12.28
21	Iul 1	20. 4	29	22.25	56	3. 38	27	9. 55.57	25.16	14	2. 35	29	♊ 4. 25	5 2 D	12.21
22	2	20. 8	29	22.37	56	4. 20	26	10.53. 4	26.17	9	2. 54	48	18.38	4 59	11.53
23 ☉	3	20.12	29	22.49	56	5. 2	26	11.50.11	27.18	4 0	3. 9	2 6	♋ 2. 42	4 38	11. 8
24	4	20.16	29	23. 0	56	5. 44	26	12.47.18	28.19	59	3. 18	25	16.30	4 2	10.17
25	5	20.20	30	23.11	56	6. 26	26	13.44.25	29.19	55	3. 23 Retr.	44	♌ 0. 0	3 12	9. 29
26	6	20.24	30	23.22	56	7. 8	25	14.41.33	♍ 0. 18	50	3. 23	3	13. 7	2 12	8. 56
27	7	20.28	30	23.33	56	7. 49	25	15.38.41	1. 17	45	3. 16	16	25.52	1 8	8. 36
28	8	20.32	30	23.44	56	8. 31	25	16.35.49	2. 16	40	3. 7	30	♍ 8. 17	0 2 S	8. 35
29	9	20.36	31	23.55	56	9. 12	25	17.32.57	3. 14	35	2. 53	43	20.25	1 3	8. 10
30 ☉	10	40.40	31	24. 6	56	9. 54	24	18.30. 6	4. 12	31	2. 34	57	♎ 2. 21	2 3	9. 16

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Oriét.	♂ Orien.	☉	♀ occid.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Iunii*		△12		□15.54		✱2.		11 *Iunii*
2 *F. Exau.*								12 *B 3 p. Tr.*
3 Erasmus					✱0.	□23.	Td♄♀ (☽Apo.	13
4	☍2		☍7.	△13			SS♄♃ □♄☿2 (	14 Valerius
5 Bonifac.					□19		✱♃☿0.	15 Vitus
6		☍15.				△19		16 Roland.
7								17
8 Medard.					△12			18
9 *F. Pentec.*	△13		△11.	☍9.24				19 *B.4.p Tr*
10 Onophr.								20
11	□7	△9	□21.			☍20	☿ long.dist.à ☉	21
12							☽☋ Q☉♄	22 XM. M.
13	✱13	□15			☍4.			23
14 Valer.			✱5	△13.				24 Jo.B.
15 Vitus		✱20					△♄♀ 13.	25
16 *F. Trin.*				□21.16		△11.	□♂☿ ferè.	26 *B.5.p.Tr.*
17	☌21						□♃♀ 13	27 7 dorm.
18			☌17.		△1	□17	☽ Perig.	28
19 Gervas.				✱4				29 Pet. Pau.
20		☌3.			□7.	✱21		30
21								1 *Iul.*
22 XM Mar.	✱2.				✱14			2 Visit. M.
23 *F.1.p.Tr.*			✱4	☌17.3				3 *B.6.p.Tr.*
24 Jo.B.	□7	✱12						4 Ulricus
25			□12.			☌6		5 Anshelm.
26	△14	□19.						6
27 7 dorm.					☌11.			7
28			△0.	✱18			☽☊	8 Chilianus
29 Pet. P.		△7						9 Cyrillus
30 *F.2.p.Tr.*						✱0.		10 *B.7.p.Tr.*

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit.	Lat.	Longit.	Lat.	Longit.	Lat.	Longitudo.	Longit.	Lat.	Longit.	La.	Longit.	Latit.	Longit.
		♈	M D	♉	M D	♉	M D	♋	♍	S D	♌	M A	♎	S A	♍
		G. M.	Z	G. M.	O	G. M.	I	G. M. S	G. M.	O	G. M.	4	G. M.	G. M.	G. M.
1	11	20.43	31	24 17	56	10.35	24	19.27.15	5. 9	26	2. 11	10	14. 9	2 58	9. 49
2	12	20.46	32	24.28	56	11.17	23	20.24.24	6. 6	19	1. 45	19	25 55	3 46	10.25
3	13	20.49	32	24.38	56	11.59	23	21.21.33	7. 3	13	1. 14	28	♏ 7 45	4 24	10.58
4	14	20.51	32	24.49	56	12.41	22	22.18.43	7. 59	7	0. 39	37	19 45	4 52	11.25
5	15	20.53	32	24.59	56	13.22	21	23.15.53	8. 55	1 M	0. 1	46	♐ 1. 59	5 16 D	11.38
6	16	20.55	33	25.10	56	14. 4	20	24.13. 3	9. 50	6	♋ 29 20	55	14.31	5 6	11.37
7	☾17	20.57	33	25.20	56	14.46	20	25.10.15	10.45	12	28.39	56	27 22	4 51	11.18
8	18	20.58	33	25.31	56	15.28	19	26.7. 28	11.39	18	27.54	57	♑ 10 34	4 21	10.43
9	19	21. 0	34	25.41	57	16.10	18	27.4. 42	12.33	25	27.11	58	24 5	3 35	9. 55
10	20	21. 1	34	25.50	57	16.52	18	28.1. 56	13.26	31	26.30	59	♒ 7. 52	2 35	9. 3
11	21	21. 2	34	26. 0	57	17.34	17	28.59.10	14.19	37	25.50	5 0	21 51	1 25	8. 19
12	22	21. 3	34	26. 9	57	18.16	16	29.56 25	15.11	45	25.14	4 53	♓ 5. 58	0 10	7. 51
13	23	21. 4	35	26.19	57	18.57	15	♌ 0. 53.41	16. 2	53 I	24.40	45	20 9	M 1 6	7. 45
14	☉24	21. 5	35	26.28	57	19.39	15	1. 50.58	16.52		24. 8	37	♈ 4. 20	2 18	8. 1
15	25	2.1 6	35	26.38	57	20.20	14	2 48.15	17 42	9	23.38	30	18 30	3 23	8. 34
6	26	21. 7	35	26.47	57	21. 2	13	3. 45.34	18.31	17	23.10	22	♉ 2. 36	4 14	9. 16
17	27	21. 8	36	26.56	57	21 43	12	4. 42.54	19.19	25	22.44	9 3	16.38	4 51	9. 59
8	28	21. 8	36	27. 5	57	22.25	12	5. 40.15	20. 6	33	22.37	55	♊ 0. 36	5 8	10.34
19	29	21. 8	36	27.14	57	23. 6	11	6. 37.36	20.52	40	22 29 Dir.	41	14.29	5 9 D	10.53
20	30	21. 8	37	27.23	58	23.48	10	7. 34.58	21.38	48	22.29	27	28.14	4 52	10.50
21☉	31 Au.	21. 8 Retr.	37	27.32	58	24.29	10	8. 32.22	22 23	56 Z	22.35	14 Z	♋ 11.51	4 18	10.32
22	1	21. 8	37	27.40	58	25.10	9	9. 29 47	23. 7	6	22.47	56	25.15	3 31	9. 54
23	2	21. 8	37	27.49	58	25.51	8	10.27.13	23.49	15	23. 6	39	♌ 8 24	2 33	9. 7
24	3	21. 8	38	27.27	58	26.32	7	11.24 46	24.30	25	23.31	21	21.17	1 28	8. 19
25	4	21. 8	38	28. 5	58	27.13	7	12.22. 8	25.10	34	24. 3	4 1	♍ 3. 53	0 20 S	7. 38
6	5	21. 8	38	28.13	58	27.53	6	13.19.38	25.50	44	24.42	46	16 13	0 47	7. 11
27	6	21. 7	39	28.21	58	28.33	5	14.17. 9	26 29	53 3	25.27	31	28 20	1 52	7. 0
28	☉7	21. 6	39	28.28	58	29.13	4	15.14.41	27. 7	3	26.18	17	♎ 10 16	2 49	7. 4
29	8	21. 5	39	28.36	58	29 53	4	16.12.14	27.44	12	27.16	2 0	22. 5	3 41	7. 22
30	9	21. 4	39	28.43	58	♊ 0. 32	3	17.9. 48	28.20	22	28.21	47	♏ 3. 53	4 23	7. 50
31	10	21. 3	[illegible]	28.50	58	1. 12	2	18.7. 23	28.54	31	20.31	2	15.44	4 5[illegible]	[illegible] 24

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriēt	♃ oriēt.	♂ oriēt.	☉	♀ Occid	☿ Occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Theobal.	☍13.			□ 1.46			♀ longiſ. abeſt à(	11 *Iulii*
2 Viſit Mar.					⚹22.	□11.	□☉♄10 (☉.) ☽ Apog.	12
3			☍10					13 Marg.
4 Ulricus		☍10		△5		△20		14
5 Anshelm.					□14			15 Diviſ. Ap.
6	△12							16
7 *F. 3. p. Tr.*							⚹☉♃5	17 *B. 8. p. Tr.*
8 Chilianus	□13		△9		△2			8 Roſina'
9 Cyrillus		△3		☍5.37		☍5	☌☉☿0	19
10 7 fratr.	⚹22.		□16.			oriēt.	⚹♃☿9 Td♃♀	20
11 Pius		□7					Bq ♄♀	21
12			⚹21		☍17		☽☋ Q☉♂	22 Mar. M.
13 Marg.		⚹10.		△19.		△8		23 Apollin.
14 *F. 4. p. Tr.*								24 *B 9. p. Tr.*
15 Diviſ. Ap.	☌4.					□8.	☽ Perig.	25 Jacob.
16				□2.8			SS♄♂	26 Anna
17 Alexius		☌18	☌9		△5	⚹10.		27 Martha
18 Roſina				⚹9.			⚹♂☿6	28
19	⚹11.				□12		Vc. ♄♀	29
20								30
21 *F 5. p. Tr.*	□16.				⚹.0	☌19.	Td ☉♄	31 *B. 10 p T.*
22 Mar. M.		⚹4.	⚹0				Q☉♃	1 *Aug.*
23 Apollin.				☌4.7				2
24 Chriſtin.	△0	□13	□11					3
25 Jacobus							☽♌	4
26 Anna					☌20	⚹18	☌♃♂15	5 Oſvvald.
27 Martha		△0	△0.				(☽Apog.	6 Sixtus
28 *F 6. p T.*	☍20			⚹11			☿ Elon. Max. à ☉(	7 *B. 11. p. Tr.*
29 Beatrix						□11.		8
30							△♃♀ 0. ⚹♃☿8.	9
31 German.				□5.11			(⚹♀☿ 0	10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	☊ Longit.
		♈	M D Z	♉	M D O	♊	M D I	♌	♍	M A 3	♌	M D O	♏	S A	♍
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	21. 2	40	28.57	58	1. 51	2	19.4. 59	29.27	41	0. 46	18	27 44	5 11	9. 0
2	12	21. 1	40	29. 4	58	2. 29	1	20.2. 37	29.58	52	2. 6	5 S	♐ 9 57	5 15 D	9. 33
3	13	21. 0	40	29.11	58	3. 6	° 0	21.0. 16	♎ 0. 28	4 3	3. 32	7	22.28	5 5	9. 56
4 ☉	14	20.59	41	29.18	59	3. 42	59	21.57.57	0. 57	13	5. 4	20	♑ 5. 21	4 39	10. 6
5	15	20.58	41	29.25	59	4. 17	58	22.55.39	1. 24	24	6. 42	32	18 38	3 58	9. 57
6	16	20.57	41	29.32	59	4. 52	57	23.53.23	1. 49	35	8. 22	45	♒ 2. 18	3 2	9. 29
7	17	20.56	41	29.38	59	5. 27	56	24.51. 8	2. 12	46	10. 7	53	16 20	1 54	8. [illegible]
8	18	20.55	42	29.44	59	6. 2	55	25.48.54	2. 33	57	11.59	1 2	♓ 0 40	0 38 M	7. 4[illegible]
9	19	20 53	42	29.50	59	6. 36	54	26.46.42	2. 52	5 7	13.54	10	15.12	0 42	6. 59
10	20	20.51	42	29.56	59	7. 10	53	27.44.31	3. 9	18	15.49	19	29.50	2 0	6. 24
11 ☉	21	20.49	42	♊ 0. 1	59	7. 44	52	28.42.22	3. 25	29	17.44	27	♈ 14 29	3 11	6. 12
12	22	29.47	42	0 6	59	8. 18	51	29 40.15	3. 39	44	19.40	31	29 0	4 8	6. 23
13	23	20.45	43	0. 11	59 1	8. 52	50	♍ 0. 38.10	3. 51	6 0	21,37	35	♉ 13 21	4 49	6. 53
14	24	20.43	43	0. 16	0	9. 25	49	1. 36. 7	4. 0	15	23.34	40	27.31	5 12	7. 33
15	25	20.41	43	0. 21	0	9. 58	48	2 34. 6	4. 7	30	25.32	44	♊ 11 21	5 17 D	8. 16
6	26	20.38	43	0. 26	0	10.31	48	3. 32. 8	4. 12	45	27.30	48	24 59	5 3	8. 5[illegible]
17	27	20.36	44	0. 30	0	11. 4	47	4. 30.11	4 15	7 1	29 27	47	♋ 8. 24	4 33	9. 16
18 ☉	28	20.33	44	0. 34	0	11.37	46	5. 28.14	Retr 4 15	16	♍ 1. 25	45	21 35	3 49	9. 22
19	29	20.31	44	0. 38	0	12. 9	45	6. 26.19	4. 13	31	3. 23	44	♌ 4. 34	2 53	9. 9
20	30	20.28	44	0. 42	0	12.41	44	7. 24.25	4 9	47	5. 21	43	17.21	1 50	8. 40
21	31	20,25	44	0. 46	0	13.13	43	8. 22.32	4. 3	8 2	7. 19	42	19 55	0 43	7. 58
22	Se. 1	20.22	45	0. 49	0	13.44	42	9. 20 42	3. 54	5	9. 14	39	♍ 12 17	0 26	7. 12
23	2	20.19	45	0. 52	0	14.15	41	10.18.54	3. 42	8	11. 8	35	24 29	S 1 32	6. 28
24	3	20.16	45	0. 55	1	14.46	40	11.17. 8	3. 28	11	13. 1	32	♎ 6. 31	2 34	5. 53
25 ☉	4	20,13	45	0. 58	1	15.17	39	12.15.24	3. 11	14	14.53	29	18 26	3 27	5. 31
26	5	20.10	46	1. 1	1	15.47	38	13.13.42	2. 52	17	16.44	26	♏ 0 17	4 12	5. 25
27	6	20. 7	46	1. 4	1	16.17	37	14.12. 2	2. 30	20	18.34	20	12. 7	4 46	5. 33
28	7	20. 4	46	1. 6	1	16.47	36	15.10.24	2. 6	23	20 23	15	24 0	5 8	5. 54
29	8	20. 0	46	1. 8	1	17.16	35	16.8. 48	1. 40	26	22.11	10	♐ 5 59	5 17 D	6. 25
30	9	19.56	47	1. 10	1	17 46	34	17.7. 14	1. 13	29	23.58	5	18 10	5 12	7. 1
31	10	19.52	47	1. 1[illegible]	1	18.15	34	18.5. 42	0. 44	32	25.44	0 59	♑ 0 38	4 52	7. 38

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt	♃ Orien	♂ orien	☉	♀ occid	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Vinc. Petr.		☍2.	☍8.		✱3.	△7		11 *Augusti*
2	△19			△21				12 Clara
3					□17		△☉♄ o	13
4 *F.7.p.Tr.*								14 *B.12.p.Tr.*
5 Osvvald.	□4	△19			△23			15 Assum.M.
6 Sixtus			△8			☍12	Td♄☿	16 Rochus
7	✱8	□22.		☍15.17			Q♃☿	17
8			□9				☽☋	18 Helena
9								19 Sebald.
10 Laurent.		✱0	✱12.		☍5.		☽Perig.	20
11 *8.p.Tr.*	☌10.					△4.		21 *B.13.p.Tr.*
12 Clara				△1			△♄☿13.□☉♃11.	22
13 Hippol.						□16	(Q♂☿	23 Zachæus
14		☌5	☌21.	□7.37	△11.			24 Barthol.
15 Ass. M.	✱16.							25 Ludovic.
16 Rochus				✱16.	□16.	✱5	SS ☉♀	26
17	□22						□♃☿13	27 Gebhard.
18 *F.9.p.Tr.*		✱17			✱23.			28 *B.14 p.Tr.*
19 Sebald.			✱15				SS ♀☿	29 Decoll.Jo.
20	△6							30
21		□1.		☌17.49		☌17	☽☊ Eclips ☉	31 paulinus
22			□3				☌☉☿3	1 *Septemb*
23 Zachæus		△7			☌18	Occi.		2 Veronica
24 Barthol.			△16				☽ Apog.Bq♄☿	3
25 *F.10.p T.*	☍3.						□♂☿7	4 *B.15.p.Tr.*
26							Bq ☉♄	5
27 Gebhar.				✱4.		✱15.	Vc.♄☿ Td♃☿	6 Magnus
28 Augusti.		☍14			✱16			7 Regina
29 Dec.Jo.			☍23	□21.43				8 Nat.M.
30	△3.					□13	△♃♀2	9 Gorgonius
31 Paulinus					□0.		□☾♂7	10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit.	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Longi
		♈	M I Z	♊	M D I	♊	M D O	♍	♎	M A 8	♍	S D O	♑	S D	♍
		G. M.		G. M		G. M.		G. M. S.	G. M.		G. M.		G. M	G M.	G. M.
1	☉11	19.48	47	1. 14	1	18.43	33	19.4. 12	0. 13 ♍	35 D	27.30	54	13.26	4 17	8. 9
2	12	19.45	47	1. 16	1	19.12	31	20.2. 44	29.39	34	29 14	47	26.41	3 28	8. 28
3	13	19.41	47	1. 17	2	19.41	29	21.1. 18	29. 3	33	♎ 0. 56	41	♒ 10 20	2 26	8. 30
4	14	19.37	47	1. 17	2	20.10	28	21.59.54	28.26	32	2. 38	34	24 26	1 13	8. 11
5	15	19.33	47	1. 18	2	20.39	26	22.58.32	27.48	31	4. 19	28	♓ 8. 52	0 7	7. 30
6	16	19.29	47	1. 18	2	21. 8	25	23.57.12	27.10	30	5. 59	22	23 42	M 1 27	6. 36
7	17	19 25	48	1. 19	2	21.37	23	24.55.54	26.33	29	7. 38	14	♈ 8. 42	2 43	5. 41
8	☉18	19.21	48	Retr. 1. 19	2	22. 5	21	25.54.38	25.56	27	9. 16	7	23 44	3 47	5. 0
9	19	19.17	48	1. 18	2	22.33	20	26.53.24	25.20	26	10.53	O M	♉ 8. 41	4 35	4. 40
10	20	19.13	48	1. 18	2	23. 1	18	27.52.1[illegible]	24.44	25	12.29	7	23 23	5 5	4. 45
11	21	19. 8	48	1. 17	2	23.29	17	28.51. 1	24. 9	24	14. 3	14	♊ 7. 46	5 15 D	5. 9
12	22	19. 4	48	1. 17	2	23.56	15	29.49 53	23.35	15	15.36	21	21 46	5. 5	5. 48
13	23	19. 0	48	1. 16	2	24.23	14	♎ 0. 48.48	23. 1	5 7	17. 8	28	♋ 5. 22	4 38	6. 29
14	24	18 56	48	1. 15	2	24.50	12	1. 47.45	22.29	56	18.49	35	18.37	3 57	7. 7
15☾	25	18.51	48	1. 14	2	25.16	10	2. 46.45	21.57	46	20.12	43	♌ 1. 34	3 5	7. 34
16	26	18.47	48	1. 13	3	25.42	9	3. 45.47	21.26	37	21.43	50	14.14	2 5	7. 48
17	27	18.43	49	1. 12	3	26. 8	7	4. 44.50	20.56	28	23.13	57 I	26 42	0 59 S	7. 44
18	28	18.39	49	1. 11	3	26 33	6	5. 43.55	20.28	1[illegible]	24.42	4	♍ 8. 58	0 7	7. 24
19	29	18.35	49	1. 9	3	26.58	4	6. 43. 2	20. 1	9	26.10	11	21. 6	1 13	6. 54
20	30 Oc.	18.30	49	1. 7	3	27 22	2	7. 42 11	19.36	6 59	27.36	18	♎ 3. 8	2 15	6. 8
21	1	18 25	49	1. 5	3	27.46	1 S	8. 41.21	19.14	50	29. 1	25	15. 5	3 11	5. 23
22☉	2	18 20	49	1. 3	3	28.10	1	9. 40.35	18.56	37	♏ 0. 26	32	26 58	3 57	4. 42
23	3	18 15	49	1. 0	3	28.33	2	10.39.52	18.40	24	1. 50	38	♏ 8. 50	4 33	4. 11
24	4	18.10	49	0. 57	3	28.56	4	11.39.12	18.26	11	3. 13	45	20.44	4 58	3. 54
25	5	18. 5	49	0. 54	3	29.19	6	12.38.34	18.14	5- 58	4. 35	52	♐ 2. 40	5 10 D	3. 51
26	6	18. 0	49	0. 51	3	29.41	7	13.37.58	18. 5	45	5. 55	58 Z	14.42	5 7	4. 3
27	7	17.55	49	0. 48	3	♋ 0. 3	9	14.37.24	17.58	32	7. 15	4	26.54	4 52	4. 27
28	8	17.50	50	0. 44	3	0. 24	10	15.36.52	17.53	18	8. 34	10	♑ 9. 20	4 22	5. 2
29☉	9	17 45	50	0. 41	4	0. 45	12	16.36.22	Di. 17.53	5 4	9. 51	16	22. 3	3 40	5. 41
30	10	17.40	50	0. 37	4	1. 5	13	17.35.54	17.54	52	11. 6	21	♒ 5. 9	2 44	6. 18

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt	♃ Orien.	♂ Orien.	☉	♀ occid.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 F. 11. p. Tr. 2 Veronica	□ 11.	△ 8		△ 11	△ 5	△ 5	Vc. ☉♄ Td ☉♃ ☌♀☿ 5	1 B. 16. p. Tr. 12
3 4	✶ 16	□ 11.	△ 16.				✶♄♂o △♃☿ ☽☋	13 14 Exalt. ✠
5 6 Magnus		✶ 12	□ 19.	☍ 0.26	☍ 19	☍ 22		15 16 Euphem.
7 Regina 8 F. 12. p. Tr.	☌ 17		✶ 21				☽ Perig. ☌☉♀o. Td♂☿	17 Lamb. 18 B 17 p. Tr.
9 10		☌ 13		△ 8	Oriēt △ 2			19 20 Fausta
11 12	✶ 19.		☌ 4	□ 14.59	□ 3	△ 12	□♂☿ 19	21 Matthæus 22 Maurit.
13 14 Exalt. ✠	□ 0.	✶ 23.			✶ 7	□ 0	△☉♃ 11 ☍♄☿ 4.	23 Esdra 24
15 F. 13 p. Tr. 16 Euphem.	△ 9		✶ 23	✶ 2.		✶ 16.	SS♀☿	25 B. 18. p. Tr. 26 Cyprian.
17 Lampert. 18		□ 9			☌ 22		☽☊ Bq ♃☿	27 Cosm. 28 Wencesl.
19 20 Fausta		△ 20	□ 12	☌ 9.59			△♂☿ 18.	29 Michael 30 Hieron.
21 Matthæ. 22 F. 14. p. T.	☍ 7		△ 2.			☌ 8	☽ Apog. Vc. ♃☿	1 Octob. 2 B. 19. p. Tr.
23 24 Samuel		☍ 10.			✶ 19			3 4 Francisc.
25 26 Cyprian	△ 4.			✶ 21.	□ 6.			5 6 Fides
27 Cos. D. 28 Wencesl.	□ 16		☍ 6	□ 12.51	△ 16	✶ 22.	Vc. ♄♀ ferè & ♀((Dirig. SS♃♂	7 8
29 F. 15. p. T. 30 Hieron	✶ 22	△ 16				□ 11.	☍☉♄ 1. SS☉♀	9 B. 10. p. Tr. 10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit ♈ G. M.	Lat M D Z	♃ Longit ♊ G. M.	Lat M D I	♂ Longit ♋ G. M.	Lat S O	☉ Longitudo ♎ G. M. S	♀ Longit. ♍ G. M.	Lat M D 4	☿ Longit. ♏ G. M.	La. M A Z	☽ Long t. ♒ G M.	Latit S D G. M	☊ Longit ♍ G. M
1	11	17.35	50	0.33	4	1.24	15	18.35.27	17.57	39	12.20	27	18.40 ♓	1 38	6.46
2	12	17.30	50	0.28	4	1.42	18	19.35.3	18.3	27	13.34	31	2.39	0 24	6.58
3	13	17.25	50	0.23	4	1.59	20	20.34.41	18.11	14	14.45	36	17.4 ♈	—M— 0 54	6.48
4	14	17.20	50	0.18	4	2.16	22	21.34.22	18.21	1 3	15.54	40	1.53	2 10	6.1[illegible]
5	15	17.15	49	0.13	4	2.33	25	22.34.5	18.34	49	17.0	44	16.59 ♉	3 18	5.24
6 ☉	16	17.10	49	0.7	4	2.49	27	23.33.50	18.49	36	18.3	49	2.14	4 13	4.27
7	17	17.5	49	0.2 ♉	4	3.4	30	24.33.36	19.6	24	19.7	51	17.28 ♊	4 48	3.39
8	18	17.0	49	29.57	4	3.19	32	25.33.25	19.24	11	20.7	53	2.28	5 5	3.11
9	19	16.55	49	29.51	4	3.34	34	26.33.16	19.44	58	21.3	55	17.8 ♋	—D— 5 1	3.[illegible]
10	20	16.50	49	29.45	4	3.48	37	27.33.9	20.6	46	21.55	57	1.21	4 38	3.24
11	21	16.45	49	29.39	4	4.2	39	28.33.4	20.30	33	22.44	59	15.5	3 59	3.57
12	22	16.40	49	29.32	4	4.15	42	29.33.1	20.56	22	23.28	58	28.22	3 8	4.36
13 ☉	23	16.36	49	29.26	4	4.27	44	♏ 0.33.1	21.24	12	24.8	6	♌ 11.15	2 10	5.15
14	24	16.31	49	29.19	3	4.39	47	1.33.4	21.54	1	24.44	55	23.47	1 6	5.47
15	25	16.27	48	29.13	3	4.50	49	2.33.9	22.26	I 52	25.16	53	♍ 6.40	0 1	6.[illegible]
16	26	16.22	48	29.6	3	5.0	51	3.33.16	22.59	40	25.44	52	18.9	S 1 3	6.1[illegible]
17	27	16.18	48	28.59	3	5.9	54	4.33.24	23.33	30	25.58	45	♎ 0.7	2 4	6.[illegible]
18	28	16.14	48	28.53	3	5.18	56	5.33.34	24.8	19	26.13	38	12.1	2 58	5.41
19	29	16.10	48	28.46	3	5.27	59	6.33.46	24.44	9	26.18	30	23.53	3 44	5.5
20 ☉	30	16.6	48	28.39	3	5.35	I 1	7.34.0	25.21	0 58	Retr. 26.14	23	♏ 5.46	4 22	4.2[illegible]
21	31 No	16.2	48	28.32	3	5.42	3	8.34.15	25.59	48	25.58	16	17.41	4 47	3.58
22	1	15.58	48	28.25	3	5.48	6	9.34.32	26.39	39	25.24	1	29.40	5 4	2.59
23	2	15.54	48	28.18	3	5.53	8	10.34.52	27.21	31	24.46	I 47	♐ 11.44	—D— 4 59	2.31
24	3	15.50	48	28.10	3	5.57	11	11.35.14	28.4	23	24.5	32	23.54	4 45	2.1[illegible]
25	4	15.46	48	28.3	3	6.1	13	12.35.38	28.48	15	23.19	18	♑ 6.12	4 18	2.19
26	5	15.42	47	27.55		6.4	16	13.36.4	29.33	7	22.26	3	18.41	3 3[illegible]	2.36
27 ☉	6	15.38	47	27.47	3	6.7	18	14.36.31	♎ 0.19	1 S	21.26	O. 44	♒ 1.24	2 48	3.[illegible]
28	7	15.34	47	27.39	3	6.9	20	15.37.0	1.6	9	20.19	24	14.24	1 46	3.4[illegible]
29	8	15.30	47	27.31	3	6.10	23	16.37.31	1.53	17	19.5	4	27.46	0 38	4.28
30	9	15.26	47	27.23	3	Retr. 6.10	25	17.38.3	2.41	25	17.44	[illegible]	♓ 11.3[illegible]	M 0 31	5.[illegible]
31	10	15.23	47	27.15	3	6.9	28	18.38.38	3.30	33	16.11	15 35	25.43	1 4[illegible]	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriét.	♂ oriét.	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Remig.		□20	△22	△0				11 *Octob.*
2 Leodeg.						△20	☽☍♀ Td☉♂	12
3		✱21.			☍2			13
4 Francisc.			□0.					14 Calixt.
5	☌0.			☍9.24			Vc.♄☿ ☽Perig.	15
6 *F.16 p.Tr.*			✱1				✱♀☿23.Bq☉♃	16 *B.21 p.Tr.*
7		☌20			△2.	☍3	☿Long.dist.à☉	17
8	✱23.							18 Lucas
9 Dionys.				△16	□4.			19 Ptolem.
10 Gedeon			☌4.					20
11 Burch.	□3				✱10	△14.		21 Ursula
12 Colman..		✱2		□2.23			Vc.☉♃0	22 Cordula
13 *F.17.p.Tr.*	△10.							23 *B.22.p.Tr.*
14 Calixt.		□10	✱21.	✱18.		□2		24 Salome
15 Hedwig							☽☊	25 Crispin.
16 Gallus		△21			☌10	✱15.		26 Amand.
17			□0				△☉♂17	27
18 Lucas	☍8.							28 Sim Jud.
19 Ptolem.			△0.				☽Apog.	29
20 *F.18.p.Tr.*				☌3.58				30 *B 23.p.Tr.*
21 Ursula		☍21.			✱17.	☌16	✱♀☿0	31 Wolffg.
22 Cordula								1 *Nov.*
23 Severin.	△8							2 Animar.
24 Salome			☍8		□8.		△♃♀3	3 Theophil.
25 Crispin.	□18			✱13.				4
26 Amand.		△17			△22	✱6.		5
27 *F.19.p Tr.*							Vc.☉♄	6 *B.24.p.Tr.*
28 Sim. Jud.	✱1	□23.		□2.21		□10		7 Florentin.
29			△14.				☽☍♀	8
30				△11.		△9.	☌☉☿1	9 Theodor.
31 Wolffg.		✱2.	□17		☍13.	Oriét		10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit.	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Longi
		♈	M D Z	♉	M D I	♋	S A I	♏	♎	S A O	♏	S A O	♈	M A	♍
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	15 20	47	27. 8	3	6. 7	30	19.39.14	4. 20	41	14.46	54	10.21	2 55	5. 22
2	12	15.16	47	27. 0	3	6. 4	33	20.39.51	5. 11	47	13.32	I 9	25.17	3 52	4. 58
3 ☾	13	15.13	46	26 53	3	6. 0	36	21.40.31	6. 2	53	12.18	24	♉ 10 29	4 33	4. 15
4	14	15. 9	46	26.45	3	5. 55	38	22.41.13	6. 54	59	11.27	38	25 43	4 56	3. 16
5	15	15. 6	46	26.37	2	5. 49	41	23.41.57	7. 47	I 5	10.36	53	♊ 10 48	D 4 57	2. 24
6	16	15. 3	46	26.30	2	5. 42	44	24.42.43	8. 41	10	10. 7	Z 8	25 37	4 37	1. 47
7	17	15. 0	45	26.22	2	5. 34	47	25.43.29	9. 36	16	9. 52	12	♋ 10. 2	4 1	1. 32
8	18	14.57	45	26.14	2	5. 25	50	26.44.17	10.31	22	9. 50	16	23 54	3 12	1. 39
9	19	14.55	45	26. 6	2	5. 16	52	27.45. 6	11.27	28	Dir. 9. 55	21	♌ 7. 18	2 13	2. 3
10 ☉	20	14.52	45	25.58	2	5. 6	55	28.45.56	12.23	34	10.10	25	20 15	1 8	2. 38
11	21	14.50	44	25 50	2	4. 55	58	29.46 46	13.20	40	10.40	29	♍ 2. 47	0 3	3. 16
12	22	14.47	44	25 42	1	4. 43	Z 1	♐ 0. 47. 39	14.17	44	11.20	D 27	15. 2	S 1 1	3. 52
13	23	14.45	44	25.34	1	4. 30	3	1. 48.34	15.15	47	12. 4	25	27. 4	2 1	4. 20
14	24	14.42	44	25.26	1	4. 16	6	2. 49.31	16.13	51	12.53	23	♎ 8. 57	2 55	4. 36
15	25	14 40	43	25.18	1	4. 2	9	3. 50.30	17 12	55	13.46	20	20 46	3 41	4. 39
16	26	14.38	43	25.10	1	3. 47	12	4. 51.30	18.11	59	14.43	18	♏ 2 37	4 17	4. 27
17 ☾	27	14.36	43	25. 2	1	3. 31	15	5. 52 30	19.11	Z 2	15.49	12	14.30	4 43	4. 0
18	28	14.34	43	24.54	0	3. 14	17	6. 53.31	20.11	6	16.57	7	26 30	4 57	3. 22
19	29	14.32	42	24 47	0	2. 56	20	7. 54 33	21.11	10	18. 8	I	♐ 8. 37	D 4 57	2. 38
20	30 De.	14 30	42	24.39	0	2. 37	23	8. 55.36	22.12	14	19.23	I 55	20 52	4 43	1. 53
21	1	14 28	42	24.31	0	2. 18	26	9. 56.41	23.13	17	20.39	50	♑ 3. 16	4 15	1. 15
22	2	14.27	42	24 24	0	1 .59	28	10.57.47	24.14	20	21.59	43	15.48	3 35	0. 50
23	3	14.25	42	24 16	0	1. 39	31	11.58.54	25.16	22	23.20	36	28 29	2 45	0. 42
24 ☉	4	14.24	41	24. 8	O 59	1. 18	34	13 0. 3	26.18	24	24.43	28	♒ 11.21	1 45	0. 52
25	5	14.23	41	24. 1	59	0. 57	37	14.1. 13	27.21	26	26. 7	21	24.26	0 38	1. 15
26	6	14.22	41	23.53	59	0. 35	40	15.2. 24	28.24	28	27.32	14	♓ 7. 45	M 0 32	1. 52
27	7	14.21	41	23.45	59	0. 13	42	16.3. 34	29 28	30	28.58	7	21 23	1. 42	2. 34
28	8	14.20	40	23.38	59	♊ 29.50	45	17.4. 45	♏ 0. 32	32	♐ 0. 25	O 59	♈ 5. 21	2 48	3. 13
29	9	14.19	40	23.30	9	29 27	48	18.5. 57	1. 36	34	1. 53	52	19.40	3 45	3. 42
30	10	14.18	40	23.23	58	29. 4	51	19.7. 10	2. 41	37	3. 21	44	♉ 4 17	4 28	3. 51

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriët.	♂ oriët.	☉	♀ oriët.	☿ Oriët	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Om. Sanct. 2 Anim.	☌ 8		* 17				Bq ☉♄	11 *Nov.* 12
3 *F. 20. p. Tr.* 4		☌ 1.		☍ 18 52	△ 19	☍ 3	□♂♀ 1 · ☽ Perig.	13 *B. 25. p. Tr.* 14
5 6 Leonh.	* 7		☌ 16.		□ 23			15 Leopold. 16
7 8	□ 8.	occid * 4		△ 5.		△ 0	☍☉♃ 13. SS♀☿	17 18
9 Theodo. 10 *F. 21. p. Tr.*	△ 14	□ 11		□ 18. 15	* 8	□ 5	Bq ☉♂	19 Elisabeth 20 *B. 26 p. Tr.*
11 Martin. 12		△ 21	* 4			* 16	☽☋ ☍♄♀ 12	21 Præf. M. 22 Cecilia
13 14 Frideric.	☍ 1.		□ 15	* 10.	☌ 16			23 Clemens 24
15 Leopold. 16			△ 2				Vc. ♄☿ Vc ☉♂ (Q♃♀ ☿ distant Max à ☉(	25 Cathar. 26 Conrad.
17 *F. 22. p. Tr.* 18		☍ 21		☌ 22. 27		☌ 3	☽ Apog. Td ♂♀	27 *B. 1. Adv.* 28
19 Elisab. 20	△ 12.		☍ 22		* 3		Bq ♄☿	29 Saturn. 30 Andreas
21 Obl. M. 22 Cecilia	□ 21.	△ 16			□ 17.	* 13	♀ El. max Vc ♃ ♀	1 *Dec.* 2 Candid.
23 Clemens 24 *B. 23 p. T.*	* 5.	□ 23	△ 23	* 3			☍♃☿ 15 Bq ♂☿	3 4 *B. 2. Adv.*
25 Cathar. 26 Conrad.				□ 13. 51	△ 6	□ 3	△☉♄ 8. ☽☊	5 6 Nicolaus
27 28	☌ 15	* 4	□ 4	△ 21.		△ 14.	△♂♀ 12. SS♀☿	7 8 Concept. M.
29 30 Andr.			* 15.		☍ 1		☽ Perig.	9 Joachim. 10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M D Z	♃ Longit. ♉ G. M.	Lat M D O	♂ Longit. ♊ G. M.	Lat S A Z	☉ Longitudo ♐ G. M. S.	♀ Longit. ♏ G. M.	Lat S A Z	☿ Longit. ♐ G. M.	La S O O	☽ Longit. ♉ G. M.	Latit. M A G. M.	☊ Longit. ♍ G. M.
1 ☉	11	14.17	40	23.15	58	28.41	53	20.8. 23	3. 46	39	4. 50	37	19 8	4 53	3. 37
2	12	14.16	39	23. 9	58	28.19	54	21.9. 36	4. 51	39	6. 19	29	♊ 4. 6	5 0 D	3. 0
3	13	14.15	39	23. 3	58	27.56	55	22.10.51	5. 56	40	7. 48	22	19 1	4 46	2. 8
4	14	14 14	39	22.57	58	27.33	56	23.12. 7	7. 1	41	9. 18	15	♋ 3. 44	4 12	1. 14
5	15	14 14	38	22.51	57	27.10	57	24.13.24	8. 7	41	10.49	8	18. 5	3 24	0. 30
6	16	14.14	38	22.45	57	26.47	58	25.14.42	9. 13	42	12.21	0 M.	♌ 2. 2	2 23	0 4
7	17	14 14 Dir.	38	22.40	57	26.24	59 3	26.15.59	10.19	43	13.52	6	15.30	1 17	♌ 29 5[illegible]
8 ☉	8	14.14	38	22.34	56	26. 1	0	27.17.17	11.26	43	15.23	13	28 32	0 9 S.	♍ 0. 11
9	19	14 14	37	22.29	56	25.38	1	28.18.35	12.33	44	16.55	20	♍ 11. 9	0 57	0. 38
10	20	14 14	37	22 24	56	25.15	1	29.19.53	13.40	44	18.27	27	23 34	1 0	1. 13
11	21	14 14	37	22.19	56	24.53	2	♑ 0. 21. 12	14 47	45 D	20. 0	34	♎ 5. 29	2 56	1. 4[illegible]
12	22	14 15	36	22.14	55	24.31	3	1. 22.31	15.55	44	21.32	40	17.21	3 43	2. 21
13	23	14.16	36	22. 9	55	24. 9	4	2. 23.50	17. 3	44	23. 4	46	29 10	4 21	2. 4[illegible]
14	24	14 17	36	22. 5	55	23.47	5	3. 25 10	18.11	43	24 37	52	♏ 11 0	4 27	3. [illegible]
15 ♀	25	14.18	36	22. 0	55	23.25	6	4. 26 30	19.19	42	26.10	58	22 55	5 2 D	3. [illegible]
16	26	14 19	35	21.56	54	23. 4	7	5. 27.51	20.27	42	27.44	1 4	♐ 4 58	5 3	2. 4[illegible]
17	27	14 20	35	21.52	54	22.43	8	6. 29.11	21.36	41	29 18	9	17.13	4 50	2. 1[illegible]
18	28	14 21	35	21.48	54	22.23	9	7. 30 31	22.45	40	♑ 0 52	14	29 40	4 24	1. 3[illegible]
19	29	14 22	34	21.45	54	22. 3	9	8. 31.50	23.54	40	2. 26	19	♑ 12.19	3 45	0 [illegible]
20	30	14 23	34	21 41	53	21.43	10	9. 33. 9	25. 3	39	4. 1	24	25.10	2 52	0 [illegible]
21	31	14.25	34	21.38	53	21.24	11	10.34.28	26.12	38	5. 36	30	♒ 8. 13	1 51	♌ 29.[illegible]
22	Ia. ☉ 1	14 27	34	21.35	53	21. 5	12	11.35.47	27.22	37	7. 10	33	21 26	0 42	29.1[illegible]
23	2	14.29	33	21.32	53	20.46	13	12.37. 6	28.32	35	8. 45	37	♓ 4. 48	0 30 M	29.1
24	3	14 31	33	21.30	52	20.28	14	13.38.25	29 42	33	10.21	41	1[illegible].20	1 41	29.[illegible]
25	4	14 33	33	21.27	52	20.11	15	14.39.44	♐ 0. 52	31	11.58	45	♈ 2. 3	2 48	♍ 0 [illegible]
26	5	14.35	33	21.25	52	19.55	16	15.41. 2	2. 3	30	13.36	49	15 57	3 45	0. 4[illegible]
27	6	14.37	32	21.23	52	19.40	16	16.42.20	3. 14	28	15.14	51	♉ 0 1	4 31	1. 2[illegible]
28	7	14.40	32	21.21	51	19 26	17	17.43.38	4. 25	26	16.52	54	14.19	4 59	2. [illegible]
29 ☉	8	14.43	32	21.20	51	19 13	18	18.44.55	5. 36	24	18.30	56	28 45	5. 9 D	2. 1[illegible]
30	9	14.46	31	21.18	51	19. 0	19	19.46.12	6. 47	23	20. 8	58	♊ 13 15	4 59	2. 1.
31	10	14.49	31	21.17	51	18.48	20	20.47.18	7. 58	21	21.47	Z. 1	27 44	4 30	1 [illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid.	♂ orien	☉	♀ Oriét	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *I. Advent.* 2 Candid.	✶16.	☌ 6.				☍ 4		11 *B 3. Adv.* 12
3 Cassian. 4 Barbara	□ 17.		☌ 14	☍ 5. 32	△ 6		Vc. ☉♃	13 Lucia 14
5 6 Nicolaus	△ 12	✶7			□ 14	△ 21	Td ☉♄	15 16
7 8 *F 2. Adv.*		□13	✶18. occid	△ 20.			△♄☿6. ☍☉♂2 ☽ ☊	17 Lazarus 18 *B 4. Adv.*
9 Joachim. 10		△21	□ 3	□12. 42	✶3.	□ 13	Bq ☉♃ Vc. ♄♀	19 20
11 12	☍ 20		△14			✶ 10	Vc. ♃☿	21 Thomas 22 Theodos.
13 Lucia 14		☍ 22		✶ 7	☌16		☍♂☿13. Bq ♂♀ ☽ Apog.	23 24 Adam Eva
15 *F 3. Adv.* 16	△18						Td ♄☿ Bq ♃☿	25 *B. Nat. D.* 26 Stephan.
17 Lazarus 18 Christop.			☍10	☌ 16. 9		☌ 2.	☍♃♀5 Vc ♂♀	27 Jo. Ev. 28 Innoc.
19 20	□ 4	△ 17.			✶ 0		SS ♃♂	29 30 David
21 Thomas 22 *F 4. Adv.*	✶ 11	□ 0	△ 23.		□ 11.		☽☋	31 Sylvester 1 *4. Ian* 1645
23 24 Adam E.		✶5.	□3.	✶ 15	△ 22	✶ 8	□☉♄ 21	2 3
25 Nat. D. 26 Stephan	☌ 22		✶7	□ . 3 30		□ 19.	□♄☿15	4 Telesph. 5 Simeon
27 Jo. Ev. 28 Infant.		☌ . 2		△ 6		△ 5	☽ Perig.	6 Epiphan. 7 Julian.
29 *F.* 30 David 31 Sylvester	✶ 1.		☌ 9.		☍ 12	Occi.	☌☉☿10 Vc ☉♂(△♃☿ (Vc ♂☿ △☉♃11.	8 *A1. p. Ep.* 9 10 Paul. Er.

Mediorum motuum Planetarum Radices ex fundamentis Tabb. Rudolphinarum erutæ, ad meridiem Cal. Januarii Jul. Anni æræ Dionysianæ 1644. pertinentes.

	S.	°	′	″
Præcessio Æquinoctiorum à prima ♈ stella	0	28	13	33
Longitudo ☉ media ab Æquinoctio verno	9	20	30	32
Apogæum Solis	3	6	28	18
Longitudo ☽ media ab Æquinoctio Verno	10	15	29	25
Apog. Lunæ	5	29	24	4
Nodus Boreus Lunæ	1	3	30	0
Longitudo media ♄ ab Æquinoctio Verno	0	14	31	11
Aphelium Saturni	8	26	51	50
Nodus Boreus Saturni	3	21	51	11
Longitudo ♃ media ab Æquinoctio Verno	0	26	17	34
Aphelium Jovis	6	7	25	50
Nodus Boreus Jovis	3	5	28	29
Longitudo ♂ media ab Æquinoctio Verno	8	17	46	17
Aphelium Martis	4	29	47	53
Nodus Ascendens Martis	1	17	13	1
Motus medius Longitudinis ♀	10	14	21	25
Aphelium ♀	10	2	10	18
Nodus Boreus ♀	2	13	34	26
Motus medius Longitudinis ☿	8	17	42	29
Aphelium Mercurij	8	14	4	55
Nodus Boreus Mercurij	1	13	26	28

FINIS

Ephemeridis Anni Christi

1644.

EPHEMERIS
MOTUUM COELESTIUM
ad annum æræ Christianæ
M. DC. XLV.

Annus hic est primus à Bisextili, cujus Character est Periodus Scaligerana 6358. atq;

Numerantur

A Condito Mundo secundum Sethi Calvisij supputationem. Anni	5594	Ab obitu Alexandri Magni.	1968.
A Diluvio.	3938.	Ab anno Juliano.	1689.
Ab Exitu Israelitarum ex Ægypto.	3142.	A passione & morte Christi.	1612.
Ab anno Nabonazaræo.	2393.	Ab anno æræ Diocletianæ.	1361.
Ab anno Olympiadico.	2420.	Ab Hegira seu fuga Mahometis.	1054.
		A Correctione Calendarij Gregor.	63.

In Juliano.		*In Gregoriano.*
12.	Aureus Numerus.	12.
2.	Cyclus Solis.	2.
E	Literæ Dominicales.	A.
13.	Indictio Romana.	13.
12.	Epactæ.	2.
Hebd. 7. dier. 4.	Intervallum minus.	Hebd. 9. diei 0.

Festa mobilia & immobilia præcipua secundum utrumq; Calendarium, Julianum & Gregorianum, ad dies suos ascripta in Ephemeridibus inveniuntur.

Hoc anno Introitus Solis in quatuor puncta signorum Cardinalium ad Meridianum Uraniburgicum, tempus apparens, & Julianum stylum ita sese habet.

☉ in	♈ Die	9	Martij.	H.	16.	Min.	0.
	♋ Die	10	Junij.	H.	19.	Min.	19.
	♎ Die	12	Septem.	H.	9.	Min.	55.
	♑ Die	10	Decem.	H.	21.	Min.	31.

Aspectabile Luminare Solis hoc anno terris bis de die eripiet Luna: bis etiam Lunæ lumen, quod à ☉le mutuatur, de nocte Terra. Prius ☽æ deliquium, ut & ultimum quartúmve ☉is Europa nostra videbit; reliqua verò non. Ego omnium ponam calculum, cùm is non saltem Eclipsigraphiæ præcepta illustret; verùm etiam aliquos Cosmopolitas in interiore hæmisphærio, ut vigiles oculos ad harum Eclipsium contemplationem erigant, certitudinemq; calculi Tychonici æstiment, fortassis excitare queat.

I. Eclipsis ☽næ nobis conspicua.

	Sexag. vel dies	Grad. vel hora	′	″
Media ☍ Luminarium fiet	31 Ian	14	46	5
Intervallum inter veram & med. ☍ subtr.		6	50	18
Tempus apparens vera ☍	31 Ian.	7	46	19
Æquatio Æquinoct. add.	-	0	9	50
Anom. ☉	3	44	39	39
Anom. ☽ coæquata	4	39	3	26
Argum. Latitud. ☽	5	53	52	25
Longitudo ☉ vera	5	22	38	32
☽ vera	2	22	38	32
Latitudo ☽ vera M. D			31	59
Sd. ☽ corr. ob elev. poli in Huena			18	28
Limitata Sd. Umbræ			43	59
Aggreg. SSdd.			62	27

	Sexag vel dies	Grad. vel hor	′ ″
Pars deficiens			0 28
Digiti Ecliptici		9. D	53 [illegible]
Scrupula casus			53 38
Quæ divisa per motum ☽ horar. verum			30 9
Dant tempus incidentiæ		1	46 [illegible]
& totam durationem		3	33 [illegible]
Latitudo ad Eclips. Init.		M D	37
Latitudo ad Eclips. finem		M. D	26 [illegible]
Initium Eclips. in Merid. Vraniburg. p. m.	31 Ian.	5	[illegible]
Medium seu vera ☍		7	[illegible]
Finis tempore apparente		9	53

Illi autem in meridiano hâc Eclipsin ☽ conspicient, qui habitant in Nova Zembla, Obdora Tartariæ, Astracan, ad mare de Sala, in Taurinis montibus, Ormuz Persiæ, & in tractu Arabiæ felicis qui mari Arabico adjacet.



II. Eclipsis Lunæ.

Media ☍ ☉lis & ☽ accidet Vraniburgi d. 27 Iul. hor. 19. min. 10. sec. 24. Intervallum inter veram & med. ☍ add. est 6 hor. 56/4 // Tempus apparens veræ ☌ fiet d. 28 Iul 1 hor. 57/10//. p. m. Quo tempore [illegible] venitur Anomalia ☉ 0 Sex. 39 gr 51/34// Anomalia ☽ coæquata 1 Sex 11 gr. 42/30//. Coæquatus motus [illegible] tud. ☽ 2. Sex. 55 gr. 44/41// Latitudo ☽ S. D. 21/16//. Longitudo ☉ 15 gr. 5/53// ♌ ☽ in 15 gr [illegible] Sd ☽ 15/59//. Vmbræ limitata 44/5// Aggreg. SSdd 60/4//. Pars deficiens 37/48//. Scrupula casus & [illegible] dimidiæ 55/47//. Solius moræ 7/8// Tempus Incidentiæ 1 hor. 17/44//. Tempus moræ dimidiæ 3 [illegible] ta duratio 3 hor 44/2 // Digiti Ecliptici 14 D. [illegible]/24//. Latit. ☽ ad initium Eclipsis S D. 27/54//. ad [illegible] 16/36//. Nobis autem hæc Eclipsis apparere nequit, quia accidit infra Horizontem ☉le supra existente [illegible] illis verò in Meridiano videbitur qui subjacent Longitudini loci respectu Vraniburgi 187. gr. 28 min [illegible] qui accolunt fretum de Maglan, quiq; habitant in Insulis des Ladrones, in nova Guinea, atq; in terra Magellanica Australi incognita. Commodè etiam videbitur à Longitudine Terræ 97 gr. ad 277 gr. usque; [illegible]

compe-

comprehenduntur Tartaria magna, Regnum Chinarum, nova Zembla, Persia, India intra & extra Gangem, Narsingia, Ceilan, *Malaca*, Sumatra, Iava utraque, Borneo, Celebes, Luconia, Mindanao, Iaponia, Florida novæ Hispaniæ, Granada, California, &c.

I. *Eclipsis* ☉.

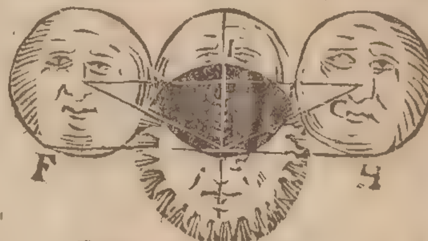
Media Luminar. Syzygia fiet d. 15 Febr. 9 hor. 8/7//. Interstitium inter veram & med. ☍ add. 12 hor. 21/17//. Tempus apparens veræ ☌ eod. die 21 hor. 22/58//. *Anomalia* ☉ 4 Sex. 0 gr. 0/8//. *Anomalia* ☽ coæq. 1 Sex. 52 gr. 59/12//. Coæq motus *Latit.* ☽ 3 Sex 10 gr. 22/2//. *Lat.* ☽ vera M.A. 53/54//. Long. ☉ & ☾ 8 gr. 18/42// ♓. Hæc autem Synodus nobis Ecliptica esse nequit ob nimiam apparentem *Latitud.* ☽ Australem, quam extendit non saltem *Latit.* ☽ per se A. Sed & Parallax ☽ Austr. in nostris Climatibus. Proinde in Australibus locis hæc copula erit Ecliptica sub Latitudine 62 gr & *Longitudine* 121 gr. 17/. Nam illic vera & visa ☌ Luminar. in 90 Eclipticæ gradu concurrit 3 h. 1/8// p m. ubi ex datis, distantia scil. polor. & Horizont. 28 gr. Compl. Decl. ☉ quæ hîc in Austral. locis est Bor. 81 gr. 30/50//. Distantia ☽ à M C. 45 gr. 17/. *Altitudo* Luminarium emergit 27 gr. 12/. Parall. ☉ 2/41// ☽ 54/59//. Parall ☽ à ☉ vergens in Septentr. 54/59//. Hinc Latit ☽ visa *A.* 1/36//. Pars deficiens 25/10//. Sd ☉ 15/23//. Sd ☽ corr. 11/25//. *Aggreg.* SSdd. 26/46//. Pars deficiens 25/10//. Digiti Ecliptici 9 min. 50 sec 36. *Ante* unam hor. ☌ veræ & visæ retrò elicitur *Alitudo* ☽ ex iisdem δεδομένοις 33 gr. 0/. Parall. ☽ à ☉ 49/26//. Distantia ☽ ab Horoscopo 81 gr. 21/. *Angulus* Eclipticæ cum Verticali 84 gr. 20/ Parall. Longitud. ☽ 4/53//. Motus hor. ☽ verus 31/43// Visus 16/50//. Scrupula casus 26/43//. Tempus incidentiæ 59/18//. Tota duratio 1 hor. 58/56//. Videbitur igitur hæc Eclipsis ab iis qui hab tant in terra Magellanica Australi nobis incognita, quam Oceanus *Australis* seu mare Indicum alluit, sub Longitudine, ut antè dictum, 121 gr. 17/ & *Latitud.* 62 gr. *Australi.*

II. *Eclipsis* ☉, *quæ in nostro Horizonte apparebit.*

	Sexa & dies	Grad & hor.	/	//
Media ☌ Luminar accidet die	1. Au	15	32	26
Intervallum inter veram & med. ☌ subtr.		12	49	38
Tempus apparens & correctum vera ☌	11 Au.	0	34	7
Quo tempore datur Anomal. ☉	0	53	5	41
Anomalia ☽	4	18	35	52
Equatio Æquinoct. add.				52
Longitudo Luminarium vera	2	28	30	10
Anomalia ☽ coæquata	4	23	33	34
Argum. Latitud. ☽	0	9	53	7
Quia verò Luminaria nondum 90 gr. Eclipt. attigerunt, datur ad semihoram ante ☌ veram				
Altitudo ☉		46	2	0
Parallaxis ☉			2	5
Parallaxis ☽ in 56 Sd. 32 // terra			56	32
Parall. ☽ à ☉			40	42
Parallaxis Longitud ☽ ad ☉			1	39
Parall Latitud ☽			8	41
Motus horar ☽ verus			30	59
Dehinc ad tempus veræ ☌ Luminarium datur altitudo Luminarium		45	38	0
Parallaxis Longitud. ☽ ad ☉			9	39
Parallaxis Latitud. ☽			19	55
Hinc emergit visus motus horarius			26	49
Differ. inter Parall. long. ☽ ante semiss ☌ veræ & motum horar verum			17	20
Intervallum inter veram & visam copulam Luminar. subtr.			21	27

	Sexa. & dies	Grad. & hor.	/	//
Tempus visæ ☌ Lumin. & maxim Ecl.		0	12	40
Evectio & Parallax. Longit. ☽ æqual			11	5
Parall. Latitud ☽ vera			39	21
Argum Lat. ☽ ad tempus visæ ☌	0	9	41	9
Latit. ☽ vera S.			50	29
Visa Latitud ☽ Sept.			11	3
S d. ☉			15	6
☽			16	33
Mutatio Sd ☽ ob elevationem poli Uranib.			12	53
Aggreg. SS dd.			27	59
Pars deficiens			16	56
Erunt igitur Digiti Ecl.		6 D.	43	42
Scrupula Incident.			25	43
Tempus Incident.			57	11
Ut tota duratio sit		1	54	22
Eclips. initium tempore appar. ad Merid. Uranib.		11	15	27
Medium s. visæ ☌		0	12	40
Finis Eclips. p. m.		1	9	51

Cùm etiam hæc Eclipsis exempli loco in Eclipsigraphia prolixiùs sit tractata, Tu *Astrophile* calculum ipsum cum præceptis conferre poteris. Vos verò sideralis scientiæ magistri Europæi diligenter apparentiam huius obscurationis ☉laris considerabitis, & ex ea de fide huius Epilogismi judicabitis.



Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Long.
		♈	M I	♉	M D	♊	S D	♑	♐	S ,	♑	M A	♋	M D	♍
		G. M.	Z	G. M.	O	G. M.	3	G. M. S.	G. M.	Z	G. M.	Z	G. M.	G. M.	G. M.
1	11	14.52	31	21.17	50	18.37	21	21.48.42	9. 9	19	23.26	3	12. 5	3 46	1. 1
2	12	14.55	31	21.17	50	18.28	20	22.49.56	10.20	16	25. 6	3	26.11	2 47	0. 8
3	13	14.58	30	21.16	50	18.20	19	23.51. 9	11.32	14	26.47	4	—♌— 9. 58	1 40	—♌— 29 20
4	14	15. 1	30	21.16	50	18.13	18	24.52.22	12.43	11	28 28	4	23 22	0 29	28.43
5	☾15	15. 4	30	Dir. 21.16	49	18. 7	18	25.53.34	13.54	3	—♒— 0. 9	5	—♍— 6. 22	—S— 0 42	28.25
6	16	15. 7	30	21.16	49	18. 2	17	26.54.46	15. 6	6	1. 50	L 5	19. 3	1 48	28.23
7	17	15.10	29	21.17	49	17.57	16	27.55.57	16.17	3	3. 32	3	—♎— 1. 24	2 50	28.41
8	18	15.14	29	21.17	48	17.53	15	28.57. 7	17.29	1	5. 15	1	13.29	3 41	29. 8
9	19	15.17	29	21.18	48	17.49	14	29.58.16	18.41	I. 58	6. 58	I 59	25 24	4 22	29 42
10	20	15 21	29	21.19	48	17.46	14	♒ 0. 59. 24	19.53	56	8. 41	56	♏ 7. 12	4 51	♍ 0 17
11	21	15.25	28	21.21	48	17.44	13	2. 0. 32	21. 5	53	10.25	54	19. 2	5 9	0. 49
12	☉22	15.29	28	21.22	47	17.43	12	3. 1. 39	22.17	50	12. 9	49	♐ 0. 57	5 14	1. 15
13	23	15.33	28	21 24	47	Dir. 17.44	11	4. 2. 44	23.29	47	13.52	44	13. 1	—D— 5 4	1. 28
14	24	15.37	28	21.25	47	17.45	10	5. 3. 47	24.41	44	15.35	40	25.20	4 40	1. 27
15	25	15 41	28	21.28	47	17.47	10	6. 4. 49	25.53	41	17.18	35	—♑— 7. 54	4 3	1. 5
16	26	15.45	27	21.30	46	17.49	9	7. 5. 50	27. 5	38	19. 1	30	20 46	3 13	0. 35
17	27	15.50	27	21.33	46	17.52	8	8. 6. 50	28.17	35	20.43	21	—♒— 3. 55	2 11	—♌— 29 45
18	28	15.54	27	21.35	46	17.55	7	9. 7. 49	29.29	32	22.24	13	17.20	1. 1	28.59
19	☉29	15.58	27	21.38	46	17.59	7	10.8. 47	—♑— 0. 41	29	24. 5	4	—♓— 0. 59	—M— 0 14	28.14
20	30	16. 2	26	21.41	45	18. 3	6	11.9. 44	1. 53	26	25.46	55	14.49	1 29	27.44
21	31	16. 7	26	21.44	45	18. 8	5	12.10.39	3. 5	22	27.27	47	28 48	2 40	27.34
22	Fe. 1	16.12	26	21 47	45	18.13	4	13.11.33	4. 17	19	29. 4	35	♈ 12.51	3 41	27.46
23	2	16.17	26	21.50	45	18.19	3	14.12.25	5. 30	16	—♓— 0. 37	24	26 58	4 29	28.15
24	3	16.22	25	21.54	44	18.26	3	15.13.16	6. 42	12	2. 6	12	♉ 11. 5	5 2	28.54
25	4	16.27	25	21.58	44	18.33	2	16.14. 5	7. 55	9	3. 30	-S- 1	25.12	5 16	29 39
26	☉5	16.32	25	22. 2	44	18.41	1	17.14.52	9. 7	6	4. 50	11	♊ 9. 19	D 5 11	♍ 0 16
27	6	16.37	25	22. 7	44	18.50	0	18.15.38	10.20	3	6. 3	26	23.22	4 46	0. 39
28	7	16.42	24	22.11	43	18 59	2 59	19.16.23	11.33	0 59	7. 11	42	♋ 7. 21	4 7	0. 44
29	8	16.47	24	22.15	43	19. 9	59	20.17. 7	12.46	56	8. 13	57	21.11	3 12	0
30	9	16.53	24	22.20	43	19.20	58	21.17.49	13.58	53	9. 10	1 13	♌ 4. 51	2 7	♌ 29 5
31	10	16.58	24	22 25	43	19.31	57	22.18.29	15.11	49	9. 58	28	18.17	0 57	29. 4

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid.	♃ occid.	♂ occid	☉	♀ Orien.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Ianuarii*	□5	✱15.		☍17.51		☍22		11 *Ian.* Higin.
2								12
3	△9	□20	✱15		△3			13 Hilarius
4 Telesph.							☽☊	14 Felix
5 *E.* Simeon			□22		□16		♃ stat. in △☉ ferè	15 *A 2. p Epi.*
6 Epiphan.		△4		△16.			△♄♀ 0	16 Marcell.
7 Julian.						△5		17 Antonius
8 Erhardus	☍3.		△9		✱9		☍♂♀7	18 Prisca
9				□10.9				19
10 Paul Er.						□3.	☽ Apogæa	20 Fab. Seb.
11 Hygin.		☍5					Vc. ♃♀	21 Agneta
12 *E 1. p. Ep.*				✱4.				22 *A 3. p. Ep.*
13 Hilarius	△5		☍9		☌23	✱2	♂ stat. in ✱♄ fe.	23
14 Felix							✱♄☿ 0.	24 Timoth.
15	□14.						△♂☿7	25 Conv. P.
16 Marcell.		△1.					Td♄♀	26 Polycar.
17 Anton.	✱21.			☌8.7			□♃☿ 12	27
18 Prisca		□7.	△1			☌10	☽☋	28
19 *E. 2 p Ep.*					✱0			29 *A 4. p. Ep*
20 Fab. & S.		✱12	□5.					30 Adelgun.
21 Agneta					□8			31
22 Vincent.	☌6		✱11	✱0.				1 *Februar.*
23					△16	✱6.		2 Purif. M.
24 Timoth.		☌18		□7.35			☽ Perigæa	3 Blasius
25 Conv. Pa.						□15.	✱☉♄5.	4
26 *E. 3. p. Ep.*	✱11.		☌16	△14.				5 *A 5. p. Ep.*
27							△☉♂.6	6 Doroth.
28	□16.				☍8	△0		7
29		✱2					☿ in Digr. max.	8
30 Adelgun.	△22						☽☊	9 Apollon
31		□7.	✱2	☍7.56			□☉♃3 Eclips. ☽	10 Scholast.

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat. M. D Z	♃ Longit. ♉ G. M.	Lat. M. D O	♂ Longit. ♊ G. M.	Lat. S D Z	☉ Longitudo ♒ G. M. S.	♀ Longit. ♑ G. M.	Lat. S D O	☿ Longit. ♓ G. M.	Lat. S A I	☽ Longit. ♍ G. M.	Latit. S A G. M.	☊ Long. ♌ G. M.
1	11	17. 4	23	22.30	42	19.43	56	23.19. 7	16.24	46	10.35	44	1. 27	0 16	28.1
2 ☉	12	17.10	23	22.36	42	19.56	55	24.19.44	17.37	43	11. 2	58	14.21	1 27	27.3
3	13	17.15	23	22.42	42	20. 9	54	25.20.19	18.50	39	11.21	2 13	26 55	2 31	27.
4	14	17.21	23	22.48	42	20.23	53	26.20.52	20. 2	36	11.30	27	♎ 9 15	3 27	26 4
5	15	17.27	23	22.54	41	20.38	52	27.21.23	21.15	33	Retr. 11.28	41	21 22	4 13	26.5
6	16	17.33	23	23. 0	41	20.53	51	28.21.51	22.28	29	11.15	56	♏ 3. 19	4 47	27.
7	17	17.39	23	23. 6	41	21. 9	50	29.22.17	23.41	26	10.54	3 4	15. 9	5 8	27.3
8	18	17.45	22	23.13	41	21.25	49	♓ 0. 22.42	24.54	23	10.23	12	26 59	5 17	28.
9 ☾	19	17.51	22	23.19	41	21.41	48	1. 23. 6	26. 6	19	9. 42	20	♐ 8. 53	D 5 12	28.4
10	20	17.57	22	23.26	40	21.58	47	2. 23.28	27.19	16	8. 51	28	20 56	4 54	29.1
11	21	18. 3	22	23.33	40	22.15	46	3. 23.49	28.32	13	7. 52	36	♑ 3. 13	4 21	29.4
12	22	18. 9	22	23.40	40	22.33	45	4. 24. 7	29.45	10	6. 51	34	15 48	3 35	29
13	23	18.15	22	23.47	40	22.51	44	5. 24.22	♒ 0. 58	7	5. 49	32	28 44	2 38	29
14	24	18.21	21	23.54	39	23. 9	43	6. 24 36	2. 11	3	4. 47	30	♒ 12. 3	1 31	29.3
15	25	18.27	21	24 2	39	23.28	42	7. 24.48	3. 24	M 0	3. 46	28	25.43	0 16	28
16 ☉	26	18.33	21	24. 9	39	23.47	41	8. 24.58	4. 36	3	2. 46	26	♓ 9. 44	M 1 1	27.
17	27	18.40	21	24.17	39	24. 7	41	9. 25. 7	5. 49	6	1. 47	15	24. 2	2 16	27.1
18	28	18.46	21	24.25	39	24.27	40	10.25.14	7. 2	9	0. 51	4	♈ 8. 30	3 22	26 2
29	Ma 1	18.53	21	24.33	38	24.47	39	11.25.19	8. 15	12	♒ 29.59	2 53	23 3	4 17	26.
20	2	19. 0	20	24.41	38	25. 8	38	12.25.22	9. 28	15	29.14	42	♉ 7 35	4 55	26.
21	3	19. 6	20	24.49	38	25.29	37	13 25.22	10.41	18	28.35	32	22. 0	5 13	26.3
22	4	19.13	20	24.57	38	25.50	36	14.25.20	11.54	21	28. 2	18	♊ 6 14	D 5 13	27.
23 ☉	5	19.20	20	25. 6	38	26.11	35	15.25.15	13. 7	24	27.36	3 1	20.15	4 53	27.
24	6	19.27	20	25.15	37	26.33	34	16.25. 8	14.20	27	27.16	49	♋ 4. 4	4 18	28.
25	7	19.34	20	25.24	37	26.55	33	17.24.58	15.33	29	27. 4	35	17.40	3 27	28.
26	8	19.41	20	25.33	37	27.17	32	18.24.46	16.46	32	26 59	21	♌ 1. 4	2 31	29 1
27	9	19.48	19	25.42	37	27.40	31	19.24.33	18. 0	35	Dir. 27. 0	7	14.16	1 18	29
28	10	19.55	19	25.51	36	28. 3	30	20.24.18	19.13	38	27. 6	0 53	27.17	0 7	28.3

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ Occid.	♂ occid	☉	♀ Oriēt	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Februar.*						☍17.	□♄♀ 13.	11 *Februar.*
2 *E. Sept.* P. M		△16	□ 11		△7			12 *A. Septua*
3 Blasius								13
4	☍16		△22.				Vc. ♂♀	14 Valentin.
5 Agatha				△13	□0			15 Faustin.
6						△15.	△♃♀ 11 ☽ Apog.	16 Juliana
7		☍16.			✱9.			17
8				□7.29				18 Concord.
9 *E. Sexag.*	△18					□1.		19 *A. Sexag.*
10 Scholast.			☍2				Bq ♂♀	20
11				✱0.		✱8		21
12	□4.	△15					Td ☉♂	22 Cat. Petr.
13					☌4.		☌☉☿ 5	23
14 Valent.	✱11	□ 21	△20			Orien		24 Matthias
15 Faustin.				☌21.30		☌13	SS♀☿☽☋Ecl.☉	25
16 *E. Quinq.*							(Td♃♀	26 *A Esto M.*
17		✱0.	□0		✱11.		SS♃♂ Q♄♀ (	27
18 Concord.	☌17							28 Roman.
19 Cinerum			✱3			✱11	☽ Apog.	1 *Mart.* Cin.
20				✱8.	□3.		Q ☉♃	2 Simplic.
21		☌5				□11		I
22 Cat. Petr.	✱22.			□15.5	△11			4 Adrianus
23 *E. Quadr.*			☌10.			△12.		5 *A. Invocav.*
24 Matthias				△23.				6 Fridelin.
25	□3.	✱14						7 Perpetua
26							(♃ ferè & △♂ f.(	8
27	△10	□21			☍3.	☍23.	SS☉♄. ☿ sta. in □(	9
28 Roman.			✱1.				✱♄♀ 14 ☽☊	10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	♄ Lat M. D Z	♃ Longit. ♉ G. M.	♃ Lat M. D O	♂ Longit ♊ G. M.	♂ Lat D Z	☉ Longitudo. ♓ G. M. S.	♀ Longit ♒ G. M.	♀ Lat M A O	☿ Longit. ♒ G. M	☿ Lat S D O	☽ Longit. ♍ G M.	☽ Latit. S A G. M.	☊ Longit. ♌ G. M
1	11	20. 2	19	26. 0	36	28.27	29	21.24. 1	20.27	41	27.16	39	10. 5	1 2	27.58
2 ☉	12	20. 9	19	26. 9	36	28.51	28	22.23.41	21.40	43	27.32	27	22 43	2 9	27.12
3	13	20.16	19	26.19	36	29.15	27	23.23.19	22.53	45	27.54	14	♎ 5. 8	3 6	26.26
4	14	20.23	19	26.29	36	29 39	26	24.22.55	24. 7	47	28.21	2 M.	17.23	3 55	25.48
5	15	20.30	19	26.39	35	♋ 0. 3	25	25.22.29	25.20	50	28.53	11	29 28	4 33	25.24
6	16	20.37	19	26.49	35	0. 28	24	26.22. 1	26.33	53	29 30	23	♏ 11.25	4 53	25 1[illegible]
7	17	20.44	19	26.59	35	0. 53	23	27.21.31	27.46	54	♓ 0. 15	33	23 17	5 12 D	25.1[illegible]
8	18	20.51	19	27. 9	35	1. 18	23	28.20.59	28 59	57	1. 9	43	♐ 5 7	5 10	25.3
9 ☾	19	20.59	19	27.20	35	1. 43	22	29 20.25	♓ 0. 12	59 1	2. 5	53 I	17. 0	4 57	26. [illegible]
10	20	21. 6	19	27.30	35	2. 8	21	♈ 0. 19.49	1. 25	1	3. 1	3	29 [illegible]	[illegible]	[illegible]
11	21	21.13	18	27.41	34	2. 34	20	1. 19.10	2. 39	3	3. 57	15	11 [illegible]	3 [illegible]	[illegible]
12	22	21.21	18	27.52	34	3. 0	19	2. 18.29	3. 52	5	4. 53	21	23 47	2 57	[illegible]
13	23	21.28	18	28. 3	34	3. 26	18	3. 17.46	5. 5	7	5. 48	29	♒ 6 40	1 56	28.1
14	24	21.36	18	28.14	34	3. 52	17	4. 17. 0	6. 18	9	6. 44	37	19 59	0 46	28.2
15	25	21.43	18	28.25	34	4. 18	17	5. 16.12	7. 31	10	7. 39	45	♓ 3 44	0 29	28
16 ☉	26	21.51	18	28.36	34	4. 45	16	6. 15.21	8. 45	12	8. 35	52	17 53	1 44	27.5
17	27	21.58	18	28.47	33	5. 12	15	7. 14.28	9. 58	14	9. 39	58	♈ 2. 29	2 54	26.4
18	28	22. 6	18	28.58	33	5. 39	14	8. 13.33	11.11	15	10.49	2 3	17.20	3 54	25 4
29	29	22.13	18	29. 9	33	6. 7	13	9. 12.36	12.24	17	12. 5	8	♉ 2. 19	4 36	25. 1
20	30	22.21	18	29.20	33	6. 35	12	10.11.37	13.37	19	13.23	13	17.28	5 2	24.3
21	31	22.29	18	29.31	33	7. 3	11	11.10.37	14.51	20	14 43	18	♊ 2. 6	5 7 D	24.3
22	Ap 1	22.36	18	29.43	33	7. 31	11	12.9. 35	16. 4	21	16. 4	21	16 38	4 51	24.4
2[illegible] ☉	2	22.44	18	29.54	32	7. 59	10	13.8. 31	17.17	22	17.26	23	♋ 0 51	4 19	25.2
24	3	22.52	18	♊ 0. 6	32	8. 27	9	14.7. 24	18.30	23	18.48	26	14.37	3 31	26. 4
25	4	22.59	18	0. 18	32	8. 56	8	15.6. 14	19.44	24	20.11	29	28. 5	2 33	26 4
26	5	23. 7	18	0. 30	32	9. 24	7	16.5. 2	20.57	25	21.35	31	♌ 11.14	1 28	27.1
27	6	23.15	18	0. 42	32	9. 53	6	17.3. 48	22.10	26	23. 1	31	24. 7	0 19 S	27.3
28	7	23.22	18	0. 54	32	10.22	6	18.2. 32	23.24	27	24.30	32	♍ 6. 47	0 48	27.3
29	8	23.30	18	1. 6	31	10.51	5	19.1. 14	24.37	28	26. 2	32 D	19.16	1 53	27.2
30 ☉	9	23.88	17	1. 18	31	11.21	4	19 59.54	25.50	29	27.36	32	♎ 1. 37	2 51	26 4
31	10	23.45	17	1. 30	31	11.50	3	20.58.32	27. 4	30	29.12	31	13.49	3 41	26.

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Occid.	♃ occid.	♂ occid	☉	♀ Orien.	☿ Oriēt.		
1 *Mart.* 2 *E. Remin.*		△ 7	□ 12	☍ 23. 21				11 *Martii.* 12 *A. Remin.*
3 4 Adrian.	☍ 6				△ 15	△ 23		13 Euphraſ. 14
5 6 Fridelin.			△ 1				SS☉♀o ☽Perig ✱☉♃13 □♃♀5.	15 16 Cyriacus
7 Perpetua 8		☍ 7.		△ 9	□ 10	□ 15	(Elong. Max. △♂☿7 ☿in(	17 Gertrud 18
9 *E. Oculi* 10	△ 8		☍ 6.	□ 2.49	✱ 5	✱ 8.	△♂♀20.	19 *A. Oculi* 20
11 12 Gregor.	□ 19.	△ 8		✱ 17				21 Benedict. 22
13 Euphraſ. 14	✱ 3	□ 14.					□☉♂6 ☽☋	23 24
15 16 *E. Lætare*		✱ 17.	△ 1		☌ 7	☌ 7	☌♀☿8	25 An. Mar. 26 *A. Lætar.*
17 Gertrud. 18	☌ 7.		□ 4.	☌ 8.13			♀&☿tard. ☌ fac	27 28
19 Ioſeph. 20		☌ 20	✱ 6		✱ 17.	✱ 17	☽ Apogæa	29 Euſtach. 30 Guido
21 Benedict. 22	✱ 12			✱ 16	□ 23	□ 23	☌♀☿5.	31 1 *Apr.* Hugo
23 *E. Iudica* 24	□ 15		☌ 14.	□ 23.4	△ 7	△ 8	Q♃♀. Q♃☿	2 *A. Iudica* 3
25 An. Mar. 26 Caſtulus	△ 22.	✱ 4		△ 10			Td♂☿ Td♂♀.	4 Ambroſ. 5
27 28		□ 12.	✱ 7				SS ♄☿ ☽♌	6 …ppus
29 Euſtach. 30 *E. Palm.*		△ 23.	□ 20		☍ 11.	☍ 14		8 9 *A. Palm.*
31	☍ 20			☍ 5. 5				10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M. D Z	♃ Longit. ♊ G. M.	Lat M. D O	♂ Longit ♋ G. M.	Lat S D Z	☉ Longitudo ♈ G. M. S.	♀ Longit. ♓ G. M.	Lat M A I	☿ Longit ♈ G. M	Lat M D Z	☽ Longit. ♎ G. M	Latit. S A G. M	☊ ♌ G. M
1	11	23.53	17	1. 43	31	12.20	2	21.57. 8	28.17	31	0. 50	31	25 56	4 19	25
2	12	24. 0	17	1. 55	31	12.50	1	22.55.42	29.30	32	2. 29	28	♏ 7 56	4 47	24.40
3	13	24. 8	17	2. 8	31	13.20	1	23.54.14	♈ 0. 43	32	4. 9	25	19.52	5 1	24.
4	14	24.15	17	2. 20	31	13.50	0	24.52.44	1. 57	32	5. 51	22	♐ 1. 45	5 2	23
5	15	24.23	17	2. 32	30	14.20	·I· 59	25.51.12	3. 10	32	7. 34	19	13.37	4 50	23
6	☉16	24.31	17	2. 45	30	14.50	58	26.49.38	4. 23	33	9. 18	16	25 32	4 26	23
7	17	24.39	17	2. 57	30	15.20	58	27.48. 2	5. 36	33	11. 4	11	♑ 7. 34	3 49	24.1
8	18	24.46	17	3. 10	30	15.51	57	28.46.24	6. 50	33	12.52	5	19 46	3 2	24
9	19	24.54	17	3. 22	30	16.21	56	29.44.44	8. 3	33	14.42	0 1	♒ 2. 13	2 5	25
10	20	25. 2	17	3. 35	30	16.52	56	♉ 0. 43. 2	9. 16	33	16.34	54	15 1	1 2	25
11	21	25.10	17	3. 48	30	17.23	55	1. 41.18	10.30	34	18.2[illegible]	49	28 13	M 0 9	26
12	22	25.17	17	4. 1	29	17.54	54	2. 39.32	11.43	33	20.22	41	♓ 11.53	1 20	26
13	☉23	25.25	17	4. 14	29	18.25	53	3. 37.44	12.[illegible]	33	22.19	33	26. 2	2 28	26
14	24	25.33	17	4. 27	29	18.56	53	4. 35.54	14. 9	32	24.17	26	♈ 10 39	3 31	26
15	25	25.40	17	4. 40	29	19.28	52	5. 34. 2	15.23	32	26.16	18	25 39	4 19	25
16	26	25.48	17	4. 53	29	19.59	51	6. 32. 9	16.36	31	28 17	10	♉ 10 51	4 50	24
17	27	25.56	17	5. 6	29	20.31	50	7. 30.14	17.49	31	♉ 0. 22	1 0	26 7	5 0	23
18	28	26. 3	17	5. 19	29	21. 3	50	8. 28.18	19. 3	31	2. 28	51	♊ 11 15	D 4 49	23
19	29	26.11	17	5. 32	29	21.35	49	9. 26.20	20.16	30	4. 35	41	26 5	4 18	22
20	30	26.18	17	5. 45	28	22. 7	48	10.24.20	21.29	30	6. 42	32	♋ 10.30	3 32	23
21	Ma. 1	26.26	18	5. 59	28	22.39	47	11.22.17	22.43	29	8. 48	22	24.28	2 34	23
22	2	26.33	18	6. 12	28	23.11	47	12.20 13	23.56	28	10.56	12	♌ 7 59	1 29	24.1
23	3	26.41	18	6. 25	28	23.43	46	13.18. 7	25. 9	27	13. 5	2 S	21. 5	0 22	24
24	4	26.48	18	6. 38	28	24.16	45	14.16. 0	26 23	26	15.16	9	♍ 3. 51	S 0 45	25
25	5	26.55	18	6. 52	28	24.48	45	15.13.52	27.36	25	17.27	19	16.19	1 49	25
26	6	27. 3	18	7. 5	28	25.21	44	16.11.43	28 49	24	19.39	29	28.38	2 46	26
27	☉7	[illegible]	18	7. 18	28	25.54	43	17.9. 31	♉ 0. 3	23	21.52	39	♎ 10 46	3 34	[illegible]
28	8	27.17	18	7. [illegible]	[illegible]	26.27	4[illegible]	18.7. 18	1. 16	22	24. 5	49	22 48	4 14	[illegible]
29	9	27.24	18	7. 45	27	27. 0	42	19.5. 4	2. 30	21	26.18	59	♏ 4 46	4 39	[illegible]
30	10	27.32	18	7. 59	27	27.33	41	20.2. 48	3. 43	19	28.31	1 9	16.42	4 56	24

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ Occid	♂ occid	☉	♀ Oriét	☿ Oriet	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Aprilis* 2 Mar.Æg.			△ 10				✶♃☿14. ☽ Apog.	11 *Aprilis* 12 Julius
3 4 Ambros.	Orien.	☍1			△0.	△9.	☌☉♄6. ✶♃♀8	13 Justinus 14 Tiburt.
5 6 *F. Pascha*	△22			△3	□ 20			15 Olymp. 16 *A. Pascha*
7 Egesippus 8	□ 10.		☍16	□ 18. 48		□ 8		17 18 Valerian.
9 10	✶ 18.	△ 2			✶12	✶3	□♂☿5 ☽☋	19 20
11 12 Julius		□ 10	△10.	✶ 7				21 22
13 *E. Quasim.* 14 Tiburt.		✶13.	□14		☌6		SS☉♃ ☌♄☿16	23 *A. Quas.*G. 24 Albert.
15 Olymp. 16	☌ 0		✶15	☌16.44		☌ 1	☽ Perig.	25 Marcus 26
17 18 Valerian.		☌ 14.			✶12			27 Anastas. 28 Vitalis
19 20 *E Mis.D.*	✶ 0		☌ 21	✶0	□ 21	✶16.	SS ♃☿ □♂♀ 20.	29 30 *A. Mis.D.*
21 22	□3.	✶ 21		□ 8.36		□6.	Q♂☿	1 *Maj* Ph. Ja. 2
23 Georgius 24 Albertus	△10.	□ 5.		△ 22	△8.	Occi.	☌☉☿4 ☽☊ ☌♄♀ 8.	3 Invent ✠ 4 Florian.
25 Marcus 26		△ 21	✶17			△2.		5 Gothard. 6 Joa.an.po.
27 *E. Iubil.* 28 Vitalis	☍9		□7.		☍19			7 *A. Iubil* 8 Stanislaus
29 30			△ 23	☍ 7.20			SS♄☿ ✶♂☿10((△♄♂23 ☽ Apo.	9 10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat. M A Z	♃ Longit. ♊ G. M.	Lat. M D O	♂ Longit. ♋ G. M.	Lat. S D I	☉ Longitudo. ♉ G. M. S.	♀ Longit. ♉ G. M.	Lat. M D I	☿ Longit. ♊ G. M.	La. S A I	☽ Longit. ♍ G. M.	Latit. S D G. M.	☊ Longit. ♌ G. M.
1	11	27.39	18	8. 13	27	28. 6	40	21.0. 30	4. 57	18	0. 44	19	28 37	4 58	23.34
2	12	27.47	18	8. 27	27	28.39	40	21.58.11	6. 10	17	2. 52	26	♐ 10.32	4 46	22.54
3	13	27.54	18	8. 41	27	29.12	39	22.55.51	7. 24	15	4. 54	33	22 30	4 22	22.25
4	☉ 14	28. 1	18	8. 54	27	29 45	38	23.53.29	8. 37	14	6. 51	39	♑ 4 29	3 46	22. 7
5	15	28. 8	19	9. 8	27	♌ 0. 18	38	24.51. 5	9. 51	12	8. 45	46	16.35	3 1	22. 7
6	16	28.16	19	9. 22	27	0. 51	37	25.48.40	11. 4	10	10.37	53	28 50	2 6	22.22
7	17	28.23	19	9. 36	26	1. 24	36	26.46.14	12.18	9	12.29	57 2	♒ 11.17	1 5 M	22.50
8	18	28.30	19	9. 50	26	1. 57	36	27.43.47	13.31	7	14.21	0	24. 2	0 2	23.27
9	19	28.37	19	10. 4	26	2. 30	35	28.41.19	14.45	5	16.12	4	♓ 7 8	1 10	24. 7
10	2[illegible]	28.44	19	10.18	26	3. 3	34	29.38.50	15.58	4	18. 1	7	20 40	2 17	24.43
11	☉ 21	28.51	19	10.32	26	3. 36	34	♊ 0 36.19	17.12	2	19.46	11 D	♈ 4 40	3 18	25. 8
12	22	28.58	19	10.46	26	4. 9	33	1. 33.47	18.25	0	21.27	10	19 8	4 8	25.11
13	23	29. 5	20	11. 0	26	4. 43	32	2 31.14	19.39	58	23. 4	9	♉ 4 0	4 42	24.55
14	24	29.12	20	11.13	26	5. 16	32	3. 28.40	20.53	56	42.36	9	19 10	4 59	24.13
15	25	29.18	20	11 27	26	5. 50	31	4. 26. 5	22. 6	54	26. 4	8	♊ 4 28	4 53	23.18
16	26	29.25	20	11.41	26	6. 23	30	5. 23.29	23.20	52	27. 9	7	19 40	4 25	22.23
17	27	29.32	20	11.55	25	6. 57	30	6. 20.52	24.33	50	28 51	2 I	♋ 4 40	3 42	21.42
18	☉ 28	29.38	20	12. 9	25	7. 31	29	7. 18.14	25.47	48	♋ 0. 10	56	19.18	2 43	21.23
19	29	29.45	20	12.23	25	8. 5	28	8. 15.35	27. 0	46	1. 26	51	♌ 3. 27	1 36	21.27
20	30	29.51	21	12.37	25	8. 39	28	9. 12 5[illegible]	28.14	44	2. 40	46	17. 6	0 27	21.49
21	31	29.58	21	12.51	25	9. 13	27	10.10.12	29.28	42	3. 51	40	♍ 0. 18	0 43	22.24
22	Iu. 1	♉ 0. 4	21	13. 5	25	9. 47	26	11.7. 30	♊ 0 41	40	4. 58	33	13. 5	1 49	23. 3
23	2	0. 10	21	13.19	25	10.21	26	12.4. 47	1. 55	37	6. 1	24	25 30	2 47	23.39
24	3	0. 17	21	13 33	25	10.55	25	13.2. 3	3. 8	35	7. 0	16	♎ 7 45	3 36	24. 8
25	4	0. 23	21	13.47	25	11.30	24	13.59.18	4. 22	33	7. 55	8	19 47	4 15	24 26
26	5	0 .29	21	14. 1	25	12. 4	24	14.56.32	5. 35	30	8. 46	0 O	♏ 1 43	4 43	24.29
27	6	0. 35	21	14.15	24	12.39	23	15.53.45	6. 49	28	9. 33	48	13.36	4 58	24 16
28	7	0. 41	22	14.29	24	13.14	22	16.50.58	8. 2	26	10.16	30	25 30	5 1 D	23.[illegible]
29	8	0. 47	22	14.43	24	13.48	22	17.48.11	9. 16	24	10.57	23	♐ 7. 26	4 50	23.12
30	9	0. 53	22	14.57	24	14 23	21	18.45.23	10.39	21	11.35	11	19 24	4 26	22.[illegible]
31	10	0. 59	22	15.11	24	14.58	20	19 42 35	11.43	18	12. 7	M. 2	♑ 1 38	3 50	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriēt.	♃ occid	♂ occid	☉	♀ oriēt.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Maji.* Ph.J.		☍ 20				☍5		11 *Maji*
2								12 Pancrat.
3 Invent.✠	△11							13 Servatius
4 *E.Cantate*					△9		SS ♃♀	14 *A.Cantate*
5 Gothard.	□23			△17.			☌♃☿5.	15 Sophia
6 Joan.a.p.		△21	☍4				SS ♀☿	16
7					□2	△2.	☽☋	17
8 Stanisl.	⚹8			□7.19			SS ☉♄	18 Potent.
9		□5.			⚹15	□18.		19 Bernhard.
10			△22	⚹16.				20
11 *E.Voc.Iuc.*		⚹10						21 *A.Rogate*
12 Pancrat.	☌16					⚹4		22
13 Servatius			□1					23 Desider.
14				☌23.57			☽Perig.	24
15 Asc.D.		☌11	⚹2		☌0			25 Ascens. D.
16	⚹16					☌3.		26 Beda
17							⚹♄☿15 Q♂♀	27
18 *E.Exaudi*	□17.				⚹12		⚹☉♂ tardus 10.	28 *A.Exaudi*
19 Bernhar.		⚹16	☌8.	⚹9				29
20	△23.				□22.		☽☊	30 Wigand.
21				□20.0		⚹7	SS ♄♀	31 Petronell.
21		□0						1 *Iunij*
23 Desider.					△14	□22.		2 Marcellin.
24		△12	⚹6.	△11.			☌☉♃17. (☿in	3 Erasmus
25 *E.Pentec.*	☍21.	Oriet.					(Digress. Max.	4 *A. Pentecost.*
26 Beda			□22			△15		5 Bonifac.
27								6
28							☽Apog.	7
29		☍15	△13.	☍22.35	☍4			8 Medard.
30 Wigand.	△23						(Q♄☿	9
31 Petron.						[illegible]	⚹♃♂16. SS ♀☿(	10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit
		♉	M A Z	♊	M D O	♌	S D I	♊	♊	M D O	♋	M A O	♑	S D	♌
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	☉11	1. 5	22	15.24	24	15.3	20	20.39.46	12.57	17	12.34	14	13.37	3 3	21.
2	12	1. 11	22	15.38	24	16. 8	19	21.36.57	14.10	14	12.57	29	25.54	2 8	20.
3	13	1. 17	22	15.52	24	16.43	19	22.34. 7	15.24	12	13.16	45 I	♒ 8. 18	1 6 M	20.
4	14	1. 22	23	16. 5	24	17.18	18	23.31.16	16.38	10	13.30	0	20.54	0 1	20.
5	15	1. 28	23	16.18	24	17.53	17	24.28.25	17.52	7	13.39	15	♓ 3. 44	1 8	21.
6	16	1. 34	23	16.32	24	18.28	17	25.25.33	19. 5	5	13 42	31	16.50	2 15	21.
7	17	1. 39	23	16.46	23	19. 3	16	26.22.41	20.19	3	Retr. 13 40	47 Z	♈ 0. 17	3 15	22.1
8	☉18	1. 45	23	17. 0	23	19.18	16	27.19.48	21.33	0	13.36	3	14. 6	4 6	22.59
9	19	1. 50	24	17.14	23	20.14	15	28.16.55	22.46	2	13.29	20	28.20	4 43	23.
10	20	1. 56	24	17 28	23	20.49	14	29 14. 2	24. 0	5	13.17	38	♉ 12 57	5 3	23.
11	21	2. 1	24	17.41	23	21.24	14	♋ 0. 11. 9	25.14	7	13. 0	52 3	27 51	D 5 2	23.
12	22	2. 7	24	17.55	23	22. 0	13	1. 8. 16	26.28	9	12.39	0	♊ 12 58	4 42	22.
13	23	2. 12	25	18. 9	23	22.35	12	2 5. 23	27.41	11	12.14	20	28 1	4 2	22.
14	24	2. 17	25	18.22	23	23.11	12	3. 2. 30	28 55	13	11 45	35	♋ 12 56	3 5	21
15	☉25	2 .22	25	18.36	23	23.47	11	3. 59.37	♋ 0 9	16	11.14	49 4	27 33	1 57	2
16	26	2. 27	25	18.49	23	24.22	11	4. 56.13	1. 22	18	10 42	3	♌ 11 45	0 44	19.
17	27	2. 31	25	19. 3	23	24.58	10	5. 53.49	2. 36	20	10. 8	12	25 30	0 29	19.
18	28	2. 36	26	19.16	23	25.34	9	6. 50.55	3. 50	22	9. 32	21	♍ 8. 48	1 41	20
19	29	2. 40	26	19 30	22	26.10	9	7. 48. 1	5. 3	24	8. 55	29	21 41	2 43	20.
20	30	2. 45	26	19.43	22	26.46	8	8. 45. 7	6. 17	27	8. 18	38	♎ 4 12	3 36	21.
21	Iul. 1	2. 49	26	19.56	22	27.22	8	9. 42.13	7. 31	29	7. 41	47	16.25	4 18	21.44
22	☉2	2. 53	26	20. 9	22	27.58	7	10.39.19	8. 45	31	7. 6	48	28 26	4 49	22.1
23	3	2. 58	27	20.22	22	28.34	6	11.36 25	9. 59	33	6. 32	49	♏ 10 20	5 5	22.4
24	4	3. 2	27	20.35	22	29.10	6	12.33.32	11.12	35	6. 0	50	22 11	5 10 D	22.
25	5	3. 6	27	20.48	22	29 46	5	13.30.39	12.26	37	5. 31	51	♐ 4 3	5 6	22.
26	6	3. 10	27	21. 1	22	♍ 0. 23	4	14.27.46	13.40	40	5. 6	52 D.	16. 0	4 37	22.
27	7	3. 14	27	21.14	22	0. 59	4	15.24.54	14.54	42	4. 45	46	28 3	4 3	22.4
28	8	3. 17	28	21.27	22	1. 35	3	16.22. 2	16.18	44	4. 28	40	♑ 10 15	3 17	21.
29	☉9	3. 21	28	21.40	22	2. 12	3	17.19.10	17.22	46	4. 15	33	22.37	2 21	20.
30	10	3. 25	28	21.53	22	2. 48	2	18.16.18	18.36	48	4. 8	27	♒ 5. 8	1 17	19.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Orien.	♂ occid.	☉	♀ Orien.	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Jun E. Trin.								11 A. Trinit.
2	□ 10							12
3 Erasmus		△15	☍ 16		△15		☌♃♀10 ☽☋	13
4	✶ 0			△5.			✶♂♀ 23.	14 Valerius
5 Bonifac.		□23.				△18		15 Cor Chr.
6				□16.31	□4.			16 Roland.
7						□ 21.		17
8 E.1.p Tr.		✶5	△10		✶14		Td♄♂	18 A1.p. Tr.
9	☌6			✶0				19 Gervas.
10 Onophr.			□13			✶0.		20 Sylver.
11							☽ Perig.	21
12		☌8	✶15		☌23.			22 XM.mar.
13	✶7			☌6.59		☌ 22	✶☉♄3	23
14 Valerius								24 Jo.Bapt.
15 E.2.p.Tr.	□ 8							25 A.2.p.Tr
16 Roland		✶12.	☌ 23				✶♄♀21. ☽☊	26
17	△13			✶ 20	✶14			27 7 dorm.
18		□ 20				✶1		28
19 Gervas.						Oriēt.	☌☉☿16.	29 Pet. Paul.
20 Sylver.				□9.41	□4	□7.		30
21		△7	✶23				☌♀☿1	1 Iul. Theob.
22 E 3.p Tr.	☍7				△ 23.	△ 16.		2 A3 T. Vis.M.
23				△ 3				3
24 Jo. Bapt.			□15					4 Ulricus
25							☽ Apogæa	5 Anshelm.
26		☍10					Q☉♄	6
27 7dorm.	△10		△6			☍ 13	Q♄♀	7
28				☍2.5	☍13		☌☉♀17	8 Chilianus
29 E.4.p.Tr.	□2				occid			9 A4 T.cyril
30								10 7 fratr.

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit	Lat	Longit.	Lat	Longit.	Lat	Longitudo.	Longit	Lat	Longit.	La.	Longit.	Latit.	Longi.
		♉	M A Z	♊	M D O	♍	S D I	♋	♋	S A O	♋	M D 4	♒	S D	♌
		G. M.		G. M		G. M.		G M. S.	G. M.		G. M.		G. M.	G M	G. M.
1	11	3. 28	28	22. 5	22	3. 24	1	19.13.27	19.50	50	4. 5 Dir.	21	17 50 ♓	0 8 M	19.18
2	12	3. 32	28	22.18	21	4. 0	1	20.10.36	21. 3	52	4. 7	9 -3-	0. 44	1 2	19. 0
3	13	3. 35	29	22.31	21	4. 37	0 O	21.7. 46	22.17	54	4. 15	57	13.49	2 10	19. 1
4	14	3. 38	29	22 44	21	5. 13	59	22.4. 56	23.31	56	4. 29	46	27. 6 ♈	3 12	19.19
5	15	3. 41	29	22.57	21	5. 50	59	23.2. 6	24.45	57	4. 49	34	10 38	4 6	19.52
6	☉16	3. 45	29	23.10	21	6. 27	58	23.59.16	25.59	59 -1-	5. 15	22	24 24 ♉	4 45	20.34
7	17	3. 48	30	23.22	21	7. 4	58	24.56.27	27.13	1	5. 46	8 ½	8. 27	5 8	21.15
8	18	3. 51	30	23.35	21	7. 41	57	25.53.39	28.27	2	6. 23	54	22 45 ♊	5 14 D	21.50
9	19	3. 54	30	23.48	21	8. 18	56	26.50.52	29.41 ♌	4	7. 6	39	7. 17	4 59	22. 8
10	20	3. 56	30	24. 0	21	8. 55	56	27.48. 6	0. 55	6	7. 54	25	21.18 ♋	4 24	22. 2
11	21	3. 59	31	24.13	21	9. 32	55	28.45.21	2. 9	8	8. 48	11 I	6. 41	3 33	21.33
12	22	4. 2	31	24.25	21	10. 9	55	29.42.36 ♌	3. 22	9	9. 47	56	21.18 ♌	2 28	20.46
13	☉23	4. 4	31	24.38	21	10.46	54	0. 39. 52	4. 36	10	10.51	41	5. 42	1 14	19.52
14	24	4. 7	31	24 50	21	11.23	54	1. 37. 8	5. 50	11	11.59	26	19.48 ♍	0. 3	19. 3
15	25	4. 9	32	25. 2	21	12. 0	53	2. 34.26	7. 4	12	13.13	11 0	3. 32	1 18	18.29
16	26	4. 12	32	25.14	21	12.37	52	3. 31.45	8. 18	14	14.32	56	16.52	2 26	18.1?
17	27	4. 14	32	25.26	20	13.15	52	4. 29. 5	9. 32	15	15.56	43	29.49 ♎	3 25	18.15
18	28	4. 16	33	25.38	20	13.52	51	5. 26 26	10.46	16	17.25	29	12.24	4 13	18.40
19	29	4. 17	33	25.50	20	14 30	50	6. 23.47	12. 0	17	18.58	16	24 39 ♏	4 48	19.10
20	☉30	4. 19	33	26. 2	20	15. 7	50	7. 21. 9	13.14	18	20.35	3 S.	6. 41	5 9	19.46
21	31	4. 20	33	26.14	20	15.45	49	8. 18.32	14.28	19	22.16	10	18.34 ♐	5 17 D	20.21
22	Au 1	4. 22	34	26.26	20	16.22	49	9. 15.57	15.42	20	24. 2	21	0. 24	5 11	20.51
23	2	4. 23	34	26.37	20	17. 0	48	10.13.22	16.56	21	25.53	32	12.16	4 52	21.12
24	3	4. 25	34	26 49	20	17.37	47	11.10.49	18.10	21	27.49	43	24.12 ♑	4 20	21.21
25	4	4. 26	34	27. 0	20	18.15	47	12.8. 17	19.24	22	29 47 ♌	53 I	6. 19	3 35	21.14
26	5	4. 27	35	27.12	20	18.53	46	13.5. 45	20.38	22	1. 48	4	18.38 ♒	2 42	20.51
27	☉6	4. 28	35	27.23	20	19.30	46	14.3. 15	21.52	23	3. 49	10	1. 11	1 38	20.14
28	7	4. 29	35	27.34	20	20. 8	45	15.0. 47	23. 6	23	5. 50	16	13.58	0 26	19.2?
29	[illegible]	4. 30	35	27.46	20	20.46	44	15.58.20	24.20	24	7. 51	21	27. 1 ♓	0 43	18.5?
30	9	4. 31	36	27.57	20	21.24	44	16.55.54	25.34	24	9. 52	27	10 18	1 54	17.5?
31	10	4. 31	36	28. 8	20	22. 2	43	17.53 29	26.48	2.	11.53	33	23.49	3 0	17.3?

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ oriét.	♂ occid	☉	♀ occid	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Julius*		△8						11 *Iul.* Pius
2 Viſit.Mar.	✱5		☍6			△6	△♄♂3 ☽☋(☌♃♂ ☿ ſtat. in ✱♂ (	12
3		□16		△14	△17		SS♃♀	13 Margaretha
4 Ulricus						□13.	SS☉♃	14
5 Anshelm		✱22		□23.13				15 Diviſ Ap.
6 *E.5.p.Tr.*	☌16		△21.		□3	✱19		16 *A.5.p Tr.*
7								17 Alexius
8 Chilianus				✱5.	✱			18 Roſina
9 Cyrillus			□10				☽ Perig.	19
10 7 Fratr.	✱10	☌4						20
11 Pius			✱5			☌4	☿ in Flo.M.(tar	21
12	□21			☌15.1	☌22		□♄♀12.✱♂☿15 (	22 Mar.Magd.
13 *E.6 p.Tr.*							☽☊	23 *A.6.p.Tr.*
14		✱9						24 Chriſtin.
15 Diviſ.Ap.	△1		☌16.			✱19.		25 Jacobus
16		□16					□☉♄17.	26 Anna
17 Alexius				✱9.	✱22			27 Martha
18 Roſina						□20.		28
19	☍19	△4.						29
20 *E.7 p Tr.*			✱18	□1.28	□15			30 *A7.p.Tr.*
21								31 Germanus
22 Mar. M.				△19.		△9		1 *Auguſt.*
23 Apollin			□10		△10.		SS♃☿ SS♂♀ (	2
24 Chriſtin	△20	☍5.					(☽ Apog.	3
25 Jacobus								4 Ariſtarch.
26 Anna			△0.					5 Oſvvaldus
27 *E8.p.Tr.*	□6					☍6	□♄☿8 Td ♄♀	6 *A.8.Tr.* Sixt.
28				☍2.5	☍18.		Eclipſis ☽. ☽☋	7
29 Beatrix	✱13.	△v.						8
30			☍21					9 Romanus
31 German.		□8						10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit ♉ G. M.	Lat M A Z	♃ Longit. ♊ G. M	Lat M D O	♂ Longit. ♍ G. M	Lat S D O	☉ Longitudo ♌ G. M. S.	♀ Longit ♌ G. M.	Lat S A I	☿ Longit. ♌ G. M.	Lat S A I	☽ Longit. ♈ G. M.	Latit. M A G M	☊ Longi ♌ G. M.
1	11	4. 32	36	28.19	20	22.40	43	18.51. 5	28. 3	26	13.54	38	7. 28	3 56	17.25
2	12	4. 32	36	28.30	19	23.18	42	19.48.43	29.17	26	15.56	39	21 17	4 40	17.39
3 ☉	13	4. 33	37	28.41	19	23.57	41	20.46.22	♍ 0 31	D. 26	17.58	41	♉ 5 13	5 8	18.10
4	14	4. 33	37	28.52	19	24.35	41	21.44. 2	1. 45	25	20. 0	42	19 16	5 17	18.51
5	15	4. 34	37	29. 2	19	25.13	40	22.41.44	2. 59	25	22. 2	43	♊ 3. 23	D 5 8	19.34
6	16	4. 34	37	29.13	19	25.52	40	23.39.28	4. 13	25	24. 4	44	17. 35	4 39	20.11
7	17	4. 34	38	29.23	19	26.30	39	24.37.13	5. 27	25	26. 3	42	♋ 1. 50	3 54	20.32
8	18	Retr. 4. 34	38	29.34	19	27. 8	38	25.34.59	6. 41	25	28. 0	40	16. 4	2 54	20.33
9	19	4. 34	38	29.44	19	27.47	38	26.32.46	7. 55	25	29.57	38	♌ 0. 14	1 44	20.11
10 ☉	20	4. 34	38	29 54	19	28.25	37	27.30.35	9. 9	25	♍ 1. 53	36	14.15	0 28	19.30
11	21	4. 33	39	♋ 0. 4	19	29. 4	37	28.28.26	10.24	25	3. 47	34	28. 3	S 0 48	18.40
12	22	4. 33	39	0 14	19	29 42	36	29 26.19	11.38	24	5. 40	30	♍ 11 35	2 0	17.50
13	23	4. 32	39	0. 24	19	♎ 0. 21	35	♍ 0. 24. 14	12.52	23	7. 32	25	24 49	3 4	17.10
14	24	4. 31	39	0. 34	19	0. 59	35	1. 22.11	14. 6	22	9. 23	21	♎ 7. 34	3 56	16.46
15	25	4. 30	40	0. 44	19	1. 38	34	2. 20. 9	15.20	21	11.13	16	20 18	4 36	16.39
16	26	4. 29	40	0. 54	19	2. 17	34	3. 18. 9	16.34	20	13. 2	12	♏ 2. 36	5 3	16.50
17 ☉	27	4. 28	40	1. 3	19	2. 56	33	4. 16.10	17.48	19	14.49	6	14.38	5 15 D	17.13
18	28	4. 27	40	1. 12	19	3. 35	32	5. 14 13	19. 2	19	16.35	0	26.35	5 14	17.45
19	29	4. 25	41	1. 21	19	4 14	32	6. 12.17	20.16	18	18.20	54	♐ 8. 24	4 58	18.20
20	30	4. 24	41	1. 30	18	4. 53	31	7. 10 23	21.30	17	20. 3	48	20 14	4 31	18.54
21	31 Sep	4. 22	41	1. 39	18	5. 32	31	8. 8. 31	22.45	16	21.45	42	♑ 2. 9	3 51	19.22
22	1	4. 21	41	1. 48	18	6. 11	30	9. 6. 41	23.59	15	23.26	35	14.16	3 0	19.42
23	2	4. 19	42	1. 57	18	6. 50	29	10.4. 52	25.13	13	25. 6	28	26 37	2 1	19.46
24 ☉	3	4. 18	42	2. 6	18	7. 29	29	11.3. 5	26.27	12	26.45	21	♒ 9. 17	0 54	19.33
25	4	4. 16	42	2. 14	18	8. 9	28	12.1. 20	27.41	11	28.22	14	22 16	M 0 16	19. 3
26	5	4. 14	42	2. 22	18	8. 48	28	12.59.38	28 55	9	29 58	7	♓ 5. 37	1 29	18.18
27	6	4. 12	43	2. 30	18	9. 27	27	13.57.58	♎ 0. 9	8	♎ 1. 33	M. 0	19 16	2 38	17.27
28	7	4. 9	43	2. 38	18	10. 7	26	14.56.19	1. 23	7	3. 7	8	♈ 3. 14	3 38	16.39
29	8	4. 7	43	2. 46	18	10.46	26	15.54.42	2. 37	5	4. 40	16	17.23	4 25	16. 5
30	9	4. 5	43	2. 54	18	11.26	25	16.53. 7	3. 52	4	6. 12	23	♉ 1. 39	4 58	15.52
31 ☉	10	4. 2	43	3. 1	18	12. 5	25	17.51.34	5. 6	3	7. 42	31	15.58	5 12	16. 1

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Orient	♂ occid	☉	♀ occid.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Aug.* Vin. P.				△9		△13	✶♃♀5.	11 *Augusti*
2	☌23	✶11			△15			12 Clara
3 *E 9. p. Tr.*								13 *A 9. p. Tr.*
4 Ariſtarch.			△9.	□4.30	□23.	□1.	Td☉♄ (Td♄☿	14 Euſebius
5 Oſvvald.							☌☉☿15 ☽Perig.	15 Aſſ. Mar.
6 Sixtus		☌21.	□16	✶11		✶13	△♄♀6	16 Rochus
7	✶4.				✶7	occid.	SS♂☿.	17
8			✶19.				✶♃☿21	18 Helena
9	□7.							19 Sebaldus
10 *E 10.* 7 La.							☽☊ Bq♄♂	20 *A 10 p. Tr.*
11	△11.	✶3.		☌0.43		☌12	△♄☿10 Ecli.☉	21
12 Clara					☌0		SS☉♂ Q♃♀	22
13 Hippolyt.		□10.	☌11				□♃♂2. ✶☉♃0	23 Zachæus
14 Euſebius								24 Barthol.
15 Aſſu Mar.		△20.					Q♃☿	25 Ludovic.
16 Rochus	☍4			✶1.				26
17 *E. 11. p. Tr.*					✶7	✶0.	△☉♄5	27 *A 11. p. Tr.*
18 Helena			✶15	□19.8			☽ Apogæa	28 Auguſtin.
19 Sebaldus						□23.	Vc. ♄♂	29 Dec. Joa.
20		☍23			□3			30
21	△4.		□7	△13				31 Paulinus
22					□21	△20.		1 *Sept.* Ægid.
23 Zachæus	□6		△20.				☌♀☿8.	2 Veronica
24 *E. 12. p. T.*							☽☋ Bq♄☿	3 *A 12. p Tr.*
25 Ludovic.	✶21.	△18					Bq ♄♀	4 Theodoſ.
26				☍13.56				5
27 Gebhar.		□23			☍20.		□♃☿15 Q☉♃	6 Magnus
28 Auguſtin.			☍12			☍0	Vc. ♄☿	7 Regina
29 Dec. Joa.							□♃♀2.	8 Nat. Mar.
30	☌4	✶2					Vc. ♄♀	9 Gorgon.
31 *E 13. p. Tr.*				△3.				10 *A 13 p. Tr.*

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Long t.	Lat	Longit	Lat	Longit.	Lat	Longitudo.	Longit	Lat	Longit.	La	Longit.	Latit.	Longi
		♉	M A Z	♋	M D O	♎	S D O	♍	♎	S D I	♎	M A O	♊	M D	♌
		G. M.		G. M		G. M		G. M. S.	G. M.		G. M.		G. M	G M	G. M.
1	11	3. 59	44	3. 9	18	12.45	24	18.50. 4	6. 20	1 O	9. 11	38	0. 13	5 6	16.28
2	12	3. 56	44	3. 16	18	13.25	23	19.48.35	7. 34	59	10.39	46	14.24	4 42	17. 8
3	13	3. 53	44	3. 23	18	14. 5	23	20.47. 8	8. 48	57	12. 6	54 1	28.17	4 1	17.52
4	14	3. 50	44	3. 31	17	14.45	22	21.45.44	10. 2	55	13.32	2	♋ 12 24	3 6	18.30
5	15	3. 47	44	3. 38	17	15.25	22	22.44.21	11.16	53	14.57	9	26.14	2 1	18.55
6	16	3. 44	44	3. 45	17	16. 5	21	23.43. 1	12.30	51	16.22	17	♌ 9. 55	0 49	19. 2
7 ☾	17	3. 41	45	3. 51	17	16.45	20	24.41.43	13.44	49	17.45	24	23.29	0 24	18.48
8	18	3. 38	45	3. 58	17	17.25	20	25.40.27	14.58	47	19. 6	32	♍ 6. 52	1 35	18.16
9	19	3. 35	45	4. 4	17	18. 6	19	26.39.12	16.12	45	20.25	39	20. 4	2 40	17.31
10	20	3. 32	45	4. 10	17	18.46	19	27.37.59	17.26	43	21.43	47	♎ 3. 3	3 36	16.42
11	21	3. 28	45	4. 16	17	19.26	18	28.36.48	18.40	41	23. 0	54 Z	15.48	4 19	15.58
12	22	3. 25	45	4. 22	17	20. 6	17	29.35.40	19.55	39	24.16	1	28 19	4 48	15.25
13	23	3. 22	45	4. 28	17	20.47	17	♎ 0. 34.35	21. 9	37	25.30	8	♏ 10 35	5 5	15. 8
14 ☉	24	3. 18	46	4 34	17	21.27	16	1. 33.32	22.23	34	26.43	15	22.39	5 7	15. 7
15	25	3. 15	6	4. 39	17	22. 7	16	2. 32.31	23.37	32	27.54	22	♐ 4. 34	D 4 57	15.20
16	26	3. 11	46	4. 45	17	22.48	15	3 31.32	24.51	30	29. 4	29	16.25	4 31	15.49
17	27	3 7	46	4. 50	17	23.28	14	4. 30 35	26. 5	27	♏ 0. 12	35	28 13	3 57	16.19
18	28	3. 3	46	4. 55	17	24. 9	14	5. 29 40	27.19	25	1. 17	40	♑ 10. 5	3 11	16.53
19	29	2. 59	46	5. 0	17	24.50	13	6. 28 46	28.33	22	2. 19	46	22 10	2 16	17.25
20	30	2. 55	46	5. 5	16	25.30	13	7. 27 54	29 47	20	3. 19	52	♒ 4 29	1 14	17.55
21	Oc 1	2. 51	47	5. 9	16	26.11	12	8. 27. 3	♏ 1 1	18	4. 16	57 3	17 9	0 6	18.11
22	2	2. 47	47	5. 13	16	26 52	11	9. 26.15	2. 15	15	5. 10	1	♓ 0 13	M 1. 4	18. 9
23	3	2. 42	47	5. 17	16	27.32	11	10.25.31	3. 29	12	6. 1	5	13.43	2 12	17.49
24	4	2 38	47	5 21	16	28.13	10	11 24.50	4. 43	10	6. 49	8	27 37	3 13	17. 9
25	5	2. 34	47	5. 24	16	28.54	10	12.24.12	5. 57	7	7. 33	12	♈ 11 55	4 6	16.17
26	6	2. 29	47	5. 28	16	29 35	9	13.23.36	7. 11	4	8. 14	16	25 30	4 43	15.24
27	7	2. 25	47	5. 31	16	♏ 0. 16	8	14.23. 2	8. 25	2 M	8. 50	16	♉ 11.15	5 2 D	14.42
28 ☉	8	2. 20	47	5. 34	16	0. 57	8	15.22.30	9. 39	1	9. 20	17	26. 1	5 0	14.20
29	9	2. 15	48	5. 37	16	1. 38	7	16.21.59	10.53	4	9. 44	D. 16	♊ 10 40	4 39	14.25
30	10	2. 11	48	5. 40	16	2. 19	6	17.21.30	12. 7	6	10. 3	16	25. 7	4 1	14.46

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriēt.	♃ oriēt.	♂ occid	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Septembr.*			△22		△11.	△17	☽ Perig.	11 *Septembr.*
2 Veronica				□10.1				12
3	✱5	☌9			□19.			13
4 Theodos.			□4	✱17.		□2		14 Exalt ✠
5	□14						✱♄♃21. ☌♂☿15	15 Nicodem.
6 Magnus			✱11.		✱5	✱13	☽☋	16 Euphem.
7 *E.14 p Tr.*	△18	✱19						17 *A 14.p.Tr.*
8 Nat.Mar.								18
9 Gorgon.				☌13.10			Bq ☉♄	19
10		□2					Td ♃☿	20 Fausta
11			☌7		☌6	☌15.		21 Martha
12	☍10	△12					☌♂♀6.	22 Maurit.
13								23 Esdra
14 *E15* Ex.✠				✱19.			☽Apog. Td♃♀	24 *A 15.p.Tr.*
15 Nicode							Vc.☉♄.Td♃♂	25
16 Euphem.			✱14		✱19			26 Cyprian.
17 Lamper.	△10	☍13.		□13.54		✱4.	□☉♃8.	27 Cosm D.
18								28
19	□21		□5.		□14	□21.	☍♄☿15	29 Michael
20 Fausta				△6			☿ in Elong.Max.	30 Hieron.
21 *E.16.*Mar.			△17.				☽☊	1 *Octob. A 16 T.*
22 Maurit.	✱4.	△9			△4	△9.	☍♄♀9 △♃☿1.	2 Leodegar.
23 Esdra								3
24 Samuel		□3					△♃♀12	4 Francisc.
25				☍0.55				5
26 Cyprian.	☌10.	✱15	☍6.		☍19.	☍20		6 Fides
27 Cosm.D.							☌♀☿12.	7
28 *E 17.p.Tr.*							☽ Perig.	8 *A 17.p.Tr.*
29 Michael				△10			☍♄♂10	9 Dionys.
30 Hieron.	✱12	☌18	△13					10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	Lat M. A Z	♃ Longit. ♋ G. M.	Lat M. D O	♂ Longit ♏ G. M.	Lat S D O	☉ Longitudo. ♎ G. M. S.	♀ Longit. ♏ G. M.	Lat M A O	☿ Longit. ♏ G. M.	Lat M D 3	☽ Longit. ♋ G. M.	Latit. M D G. M.	☊ Longit ♌ G. M.
1	11	2. 6	48	5. 42	16	3. 0	6	18.21. 3	13.21	9	10.17	16	9. 17	3 8	15.2[illegible]
2	12	2. 0	48	5. 44	16	3. 41	5	19.20.39	14.35	12	10.24	11	23 10	2 6	16. 6
3	13	1. 55	48	5. 46	16	4. 23	5	20.20.16	15.49	15	10 25 Retr.	5	—♌— 6. 47	0 55 S	16 46
4	14	1. 50	48	5. 48	15	5. 4	4	21.19.56	17. 3	17	10.15	0 Z	20.10	0 15	17.16
5 ☉	15	1. 45	48	5. 50	15	5. 46	3	22.19.38	18.17	20	9. 56	54	—♍— 3. 20	1 24	17 2[illegible]
6	16	1. 40	48	5. 51	15	6. 28	3	23.19.22	19.31	23	9. 29	48	16.20	2 27	17.2[illegible]
7	17	1. 35	48	5. 53	15	7. 10	2	24.19. 8	20.45	26	8. 52	35	29 10	3 22	17. 0
8	18	1. 30	48	5. 54	15	7. 52	2	25.18.56	21.59	28	8. 7	21	♎ 11.50	4 6	16.22
9	19	1. 25	48	5. 55	15	8. 34	1	26.18.46	23.13	31	7. 14	8 1	24.21	4 38	15.3[illegible]
10	20	1. 20	48	5. 55	15	9. 16	0 M-	27.18.38	24.27	34	6. 17	54	♏ 6 41	4 55	14.5[illegible]
11	21	1. 15	48	5. 56	15	9. 58	0	28.18.33	25.41	37	5. 15	41	18.50	5 0 D	14.1[illegible]
12 ☉	22	1. 10	48	5. 56 -Retr-	15	10.40	1	29.18 31	26.55	39	4. 9	21	♐ 0 53	4 50	13.4[illegible]
13	23	1. 5	48	5. 56	15	11.22	1	—♏— 0. 18.31	28. 9	42	3. 0	2 0	12 47	4 28	13.3[illegible]
14	24	1. 0	48	5. 56	15	12. 4	2	1. 18.33	29 22	44	1. 46	43	24.36	3 55	13.3[illegible]
15	25	0. 55	48	5. 55	15	12.46	3	2. 18.36	—♐— 0. 36	47	0. 30 ♎	23	♑ 6. 25	3 11	13.4[illegible]
16	26	0. 50	48	5. 55	14	13.28	3	3. 18.42	1. 50	50	29.15	14 5	18 18	2 19	14.1[illegible]
17	27	0. 45	48	5. 54	14	14.11	4	4. 18.51	3. 4	52	28. 4	14	—♒— 0. 20	1 17	14.[illegible]
18	28	0. 41	48	5. 54	14	14.53	4	5. 19. 1	4. 18	55	26.59	32	12.36	0 16	15 2[illegible]
19 ☉	29	0. 36	48	5. 53	14	15.35	5	6. 19.12	5. 32	57 1	26. 1	50 I	25.12	—M— 0 50	16. [illegible]
20	30	0. 31	48	5. 52	14	16.18	6	7. 19.25	6. 46	0	25.13	8	♓ 8 13	1 56	16.2[illegible]
21	31	0. 26	48	5. 51	14	17. 0	6	8. 19.39	8. 0	3	24.35	26	21 42	2 57	16 3[illegible]
22	No. 1	0. 22	48	5. 49	14	17.43	7	9. 19.55	9. 14	5	24.15	35	♈ 5. 40	3 50	16.[illegible]
23	2	0. 17	48	5. 47	14	18.25	7	10.20.14	10.27	7	24 13 Dir.	44	20 6	4 30	15.5[illegible]
24	3	0. 13	48	5. 45	14	19. 8	8	11.20.36	11.41	10	24 19	53 7	♉ 4 55	4 54	15.[illegible]
25	4	0. 8	48	5. 43	14	19.51	9	12.21. 0	12.55	12	24 34	1	19.59	4 57 D	14 11
26 ☉	5	0. 4	48	5. 40	14	20.34	9	13.21.26	14. 9	15	25. 4	10	♊ 5. 7	4 39	13.2[illegible]
27	6	—♈— 29.59	48	5. 38	14	21.17	10	14.21.53	15.23	17	25.44	11	20. 9	4 2	12.[illegible]
28	7	29.55	48	5. 35	13	22. 0	10	15.22.22	16.36	19	26.34	12	♋ 4 57	3 10	12.4
29	8	29.51	47	5. 32	13	22.43	11	16.22.53	17.50	22	27.30	12	19 23	2 6	13.[illegible]
30	9	29.47	47	5. 29	13	23.26	12	17.23.25	19. 4	24	28.29	13	♌ 3. 26	0 56	13.[illegible]
31	10	29.43	47	5. 26	13	24. 9	12	18.23.59	20.18	27	29.32	13	17. 8	—S— 0 15	14.1[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ oriét.	♂ occid	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Octobr.*				□16.53	△ 8	△ 2		11 *Octob.*
2 Leodegar.	□15.		□19.					12 Colman.
3					□ 18	□ 6.	☽☊	13
4 Franciſc.	△ 21			✶ 2				14 Calixtus
5 *E.18. Tr.*		✶ 4.	✶ 5			✶ 12	△♃♂ 2.	15 *A 18. p. Tr.*
6 Fides					✶ 6.		Td ☉♃	16 Gallus
7		□ 13						17
8							☌♂☿ 4	18 Lucas
9 Dionyſ.	☍ 14	△ 22		☌ 4.10		☌ 23		19 Prolemeus
10 Gedeon			☌ 5				△♃☿ 10	20
11 Burchard.					☌ 15			21 Urſula
12 *E.19. Tr.*							☽ Apog.	22 *A.19. p. Tr.*
13	occid						☍☉♄ 17 (SS♀☿	23 Severinus
14 Calixtus	△ 13	☍ 23		✶ 15		✶ 13	☍♄☿ 15. ☌☉☿ 5(	24 Salome
15 Hedvvig			✶ 13.			Oriét.	Vc. ♄♀ (Bq ♃♀	25 Criſpinus
16 Gallus						□ 20		26 Amandus
17	□ 1			□ 8.29	✶ 6			27
18 Lucas			□ 4.				△☉♃ 14 ☽☋	28 Simon Ju.
19 *E.20 p Tr.*	✶ 10	△ 19.		△ 22	□ 21	△ 1.	Vc. ♃♀ Bq ♄♀	29 *A. 20. p. Tr.*
20			△ 15					30
21 Urſula								31 Wolffgang.
22 Cordula		□ 0			△ 6.		SS ☉♀	1 *Novem.* O.S.
23 Severinus	☌ 16.					☍ 7		2 Animar.
24 Salome		✶ 1.		☍ 10.58				3 Theophil.
25 Criſpinus			☍ 0					4
26 *E 21. p. Tr.*		△ 1			☍ 16		☽ Perig.	5 *A 21. p. Tr.*
27	✶ 16					△ 9.		6 Leonhard.
28 Sim. Jud.		☌ 1		△ 18.				7 Florentius
29	□ 18		△ 6			□ 15		8
30							☽☊ ☿ in El. Max.	9 Theodorus
31 Wolffg.	△ 22.		□ 13	□ 2.28	△ 6.		☍♄☿ 3.	10

Styl. Veteri	Stylo Novo	♄ Longit. ♈ G. M.	Lat M. D Z	♃ Longit. ♋ G. M.	Lat M. D O	♂ Longit ♏ G. M.	Lat M A O	☉ Longitudo. ♏ G. M. S.	♀ Longit ♐ G. M.	Lat M A I	☿ Longit. ♏ G. M	Lat S D Z	☽ Longit. ♍ G. M.	Latit. S A G. M.	☊ Longit ♌ G. M.
1	11	29.39	47	5. 22	13	24.52	13	19.24.34	21.31	29	0. 40	13	0. 27	1 24	14 56
2	☉12	29.34	47	5. 18	13	25.35	13	20.25.11	22.45	31	1. 52	9	13.24	2 27	15,29
3	13	29.30	46	5. 14	13	26.18	14	21.25.50	23.59	33	3. 6	5	26. 9 ♎	3 30	15,49
4	14	29.25	46	5. 9	13	27. 1	15	22.26.32	25.12	35	4. 23	1 ·I·	8 42	4 5	15,53
5	15	29.21	46	5. 5	13	27.44	15	23.27.15	26.26	37	5. 42	57	21. 6 ♏	4 36	15,43
6	16	29.17	46	5. 0	12	28.27	16	24.28. 0	27.40	38	7. 4	54	3 21	4 54 D	15,1
7	17	29.13	46	4. 55	12	29.10	16	25.28.46	28.53 ♑	40	8. 28	47	15.29	4 59	14,36
8	18	29. 9	45	4. 50	12	29.54 ♐	17	26.29.33	0. 7	42	9. 55	41	27.31 ♐	4 50	13 52
9	☉19	29. 5	45	4. 44	12	0. 37	18	27.30.21	1. 21	44	11.24	35	9. 28	4 28	13, 8
10	20	29. 1	45	4. 39	12	1. 20	18	28.31.10	2. 34	46	12.55	29	21.21 ♑	3 54	12,32
11	21	28.57	45	4. 33	12	2. 4	19	29.32. 1 ♐	3. 47	48	14.27	23	3. 12	3 11	21.
12	22	28.53	45	4. 27	12	2. 47	19	0. 32.54	5. 1	49	15.59	16	15. 3	2 20	11,5
13	23	28.50	44	4. 21	12	3. 31	20	1. 33.49	6. 15	50	17.31	9	26.59 ♒	1 21	12, 1
14	24	28.46	44	4. 15	12	4. 14	21	2. 34.46	7. 28	51	19. 3	2 0	9. 2	0 19 M	12,2
15	25	28.43	44	4. 9	11	4. 58	21	3. 35.44	8. 42	52	20.35	55	21.18 ♓	0 46	12,
16	☉26	28.39	44	4. 3	11	5. 42	22	4. 36.43	9. 56	54	22. 7	49	3. 51	1 50	13,
17	27	28.36	43	3. 56	11	6. 25	22	5. 37.42	11. 9	55	23.40	42	16.46 ♈	2 51	14,
18	28	28.32	43	3. 50	11	7. 9	23	6. 38 42	12.22	56	25.13	34	0 8	3 44	14,40
19	29	28.29	43	3. 43	11	7. 53	23	7. 39.44	13.35	57	26.46	27	13.59	4 26	15, 1
20	30	28.26	43	3. 37	11	8. 37	24	8. 40.48	14.48	58 Z	28.19	20	28.19 ♉	4 53	15, 2
21	De. 1	28.23	43	3. 30	11	9. 21	25	9. 41.53	16. 1	0	29.53 ♐	13	13 6	5 2 D	14 4
22	2	28.20	42	3. 23	11	10. 5	25	10.43. 0	17.14	0	1. 27	7 M	28. 6 ♊	4 50	13,1
23	☉3	28.17	42	3. 16	10	10.49	26	11.44. 7	18.27	1	3. 0	0	13 28	4 18	13, 2
24	4	28.14	41	3. 9	10	11.33	26	12.45.15	19.40	1	3. 34	7	28 43 ♋	3 27	12, 8
25	5	28.11	41	3. 2	10	12.17	27	13.46.24	20.53	2	6. 7	14	13 46	2 22	11,2
26	6	28. 9	41	2. 55	10	13. 1	28	14.47.34	22. 6	3	7. 41	21	28.29 ♌	1 8 S	11,12
27	7	28. 6	41	2. 47	10	13.45	28	15.48.45	23.19	3	9. 15	27	12.47	0 7	11 18
28	8	28. 4	41	2. 40	10	14.29	29	16.49.56	24.32	4	10.49	33	26 38 ♍	1 21	11,4
29	9	28. 2	41	2. 32	10	15.14	29	17.51. 8	25.45	4 D	12.23	39	9. 57	2 28	12,2
[illegible]	☉10	28. 0	41	2. 25	10	15.58	30	18.52.33	26.58	4	13.57	45	22.59	3 24	13, 1

Stylo Veteri.	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Occid	♃ Orient	♂ occid	☉	♀ Occid	☿ Oriét		
1 *Nov.* Om. S		⚹9				⚹ 0.		11 Martinus
2 *E 22. T* An:				⚹ 14.	□ 19.			12 *A 22. p. T*
3 Theophil.		□17	⚹ 0					13
4							△♃☿ 13	14 Frideric
5	☍16				⚹12			15 Leopold.
6 Leonhar.		△3				☌8	Bq ♃♂ (SS♂♀	16
7 Florentius				☌ 21. 47			Vc. ♄♂ △♄♀ 5. (	17
8			☌5					18 Gelasius
9 *E. 23. p. Tr.*							☽ Apog.	19 *A 23. T.* El.
10	△15.						Vc. ☉♄ Bq ☉♃	20
11 Martinus		☍3			☌1.		☍♃♀ 13	21 Præf. M.
12						⚹2		22 Cæcilia
13	□4		⚹14	⚹10			(Bq ♄♂	23
14 Frideric.						□ 22.	Vc. ♃♂ ☽☋ (	24
15 Leopold.	⚹14						Vc. ☉♃	25 Cathar.
16 *E 24 Trin.*		△ 0.	□3.	□ 1. 33	⚹12.		Bq ☉♄ Td ♄♀	26 *A 24. p. T.*
17						△14		27
18 Gelasius		□6.	△13	△2	□23		(Bq ♃☿	28
19 Elisabeth							☌ ☉♂ tarda 11. (	29 Saturni.
20	☌ 0	⚹ 8.	oriét.				Vc. ♄☿	30 Andreas
21 Obl. Mar.					△5			1 *Decembr.*
22 Cæcilia			☍19.	☍ 21.6		☍6	(Bq ♄☿	2 Candidus
23 *E 25. p. Tr.*	⚹23						Vc. ♃☿. ☽ Perig. (	3 *A 1. Adv.*
24		☌7						4 Barbara
25 Cathari.					☍13			5
26 Cunrad.	□0					△17.	☽☊.	6 Nicolaus
27			△2	△ 12				7
28	△2.	⚹11						8 Conc. M.
29 Saturni.			□10	□15. 47		□5.		9 Joachim.
30 *E 1. Adv.*		□17.			△12		□♄♀ 19	10 *A 2. adv.*

Styl. Veteri	Stylo Novo	♄ Long.t ♈ G. M.	Lat M D Z	♃ Longit. ♊ G. M.	Lat M D O	♂ Longit ♐ G. M.	Lat M A O	☉ Longitudo. ♐ G. M. S.	♀ Longit ♑ G. M.	Lat M D Z	☿ Longit. ♐ G. M.	La. M A O	☽ Longit. ♎ G. M.	Latit. S A G. M.	☊ Longit. ♌ G. M.
1	11	27.58	40	2. 17	9	16.42	30	19.53.33	28.12	3	15.31	51	5. 46	4 9	13.37
2	12	27.56	40	2. 9	9	17.26	31	20.54.47	29.24	3	17. 5	57	18 12	4 43	14. 4
3	13	27.54	40	2. 1	9	18.11	32	21.56. 3	♒ 0. 37	2	18.39	I 3	♏ 0. 25	5 1	14.19
4	14	27.52	40	1. 53	9	18.55	32	22.57.19	1. 50	2	20.13	8	12.30	5 7	14.18
5	15	27.51	39	1. 45	9	19.40	33	23.58.36	3. 2	1	21.47	14	24 29	D 4 57	14. 2
6	16	27.49	39	1. 37	9	20.25	33	24.59.53	4. 15	1	23.22	20	♐ 6. 24	4 37	13.33
7 ☉	17	27.48	39	1. 29	9	21.10	34	26.1. 10	5. 28	0	24.57	24	18 18	4 4	12.53
8	18	27.47	38	1. 21	8	21.55	34	27.2. 27	6. 40	0	26.32	29	♑ 0. 10	3 20	12. 5
9	19	27.46	38	1. 13	8	22.40	35	28.3. 44	7. 53	I 59	28. 7	33	12. 5	2 27	11.26
10	20	27 45	38	1. 4	8	23.25	35	29.5. 2	9. 5	59	29.42	38	24. 3	1 28	10.51
11	21	27.44	38	0. 56	8	24.10	36	♑ 0. 6. 21	10.17	58	♑ 1. 17	42	♒ 6 5	0 24 M	10.28
12	22	27.43	37	0. 48	8	24.55	36	1. 7. 40	11 29	56	2. 53	45	18.18	0 42	10.23
13	23	27.43	37	0. 39	8	25.40	37	2 8. 59	12.41	55	4. 29	49	♓ 0. 39	1 47	10.31
14 ☉	24	27.42	37	0. 31	8	26.25	37	3. 10.18	13.54	53	6. 5	52	13.16	2 48	10.[illegible]
15	25	27.42	36	0. 22	8	27.10	38	4. 11.38	15. 6	51	7. 41	55	26 11	3 42	11.[illegible]
16	26	27.42	36	0. 14	7	27.55	39	5. 12.58	16.18	49	9. 18	59	♈ 9. 26	4 27	12.1[illegible]
17	27	27.41	36	0. 6	7	28.41	39	6. 14.19	17.30	47	10.55	Z 0	23. 7	4 57	12.[illegible]
18	28	Dir. 27 41	35	♊ 29 58	7	29.26	40	7. 15.39	18.41	46	12.32	2	♉ 7 14	5 11	13.18
19	29	27.41	35	29.50	7	♑ 0. 12	40	8. 16.59	19.53	44	14.10	4	21.45	D 5 6	13.31
20	30	27.42	35	29.42	7	0. 57	41	9. 18.18	21. 4	42	15.48	5	♊ 6. 38	4 39	13.20
21 ☉	31	27.42	35	29 34	7	1. 43	41	10.19.37	22.16	40	17.26	7	21 43	3 54	12.45
22	Ja. 1	27.42	34	29.27	7	2. 28	42	11.20.56	23.27	38	19. 4	D 7	♋ 6 53	2 52	11.52
23	2	27.43	34	29.19	6	3. 14	42	12.22.15	24.37	35	20.42	6	21 57	1 38	10.57
24	3	27.43	34	29.11	6	3. 59	43	13.23.34	25.47	33	22.21	6	♌ 6 46	0 18	10.1[illegible]
25	4	27.44	33	29. 4	6	4. 45	43	14.24.53	26.57	30	24. 0	5	21.14	S 1 0	9. 44
26	5	27.45	33	28.56	6	5. 31	44	15.26.11	28. 7	28	25.39	5	♍ 5. 16	2 13	9. 3[illegible]
27	6	27.46	33	28.49	6	6. 16	44	16.27.29	29.17	25	27.18	1	18.51	3 17	9. [illegible]
28 ☉	7	27.47	32	28.42	6	7. 2	45	17.28.46	♓ 0. 26	23	28 57	I 58	♎ 2 1	4 7	10.[illegible]
29	8	27.48	32	28.34	6	7. 48	45	18.30. 3	1. 36	20	♒ 0. 35	55	14.47	4 44	11.[illegible]
30	9	27.50	32	28.27	5	8. 33	46	18.31.20	2. 46	18	2. 13	52	27 13	5 7	11[illegible]
31	10	27.51	32	28.20	5	9. 19	47	20.32.36	3. 56	15	3. 51	48	♏ 9. 23	5 15	12.1[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriét.	♂ oriét.	☉	♀ occid	☿ oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Decemb.* L.			✱20.			✱21.		11 Damasus
2 Candidus	☍19			✱6			☌♂☿10	12 Epimach.
3 Cassianus		△1			□0.			13 Lucia
4 Barbara							Vc.♃♀	14 Nicasius
5					✱19			15
6 Nicol.								16
7 *E. 2. Adv.*	△19		☌6	☌17.4		☌15.	(☌☉☿21 ☽Apo.	17 *A 3. Adven.*
8 Conc. M.		☍2.				occid	△☉♄17. △♄☿19(	8 Christoph.
9 Joachim.							Bq ♃♀	19
10	□7.						☍♃☿5	20
11 Damasus					☌9		☍☉♃17. ☽☋	21 Thomas
12 Epimach.	✱18		✱14					22 Theodos.
13 Lucia		△0		✱3		✱8.		23
14 *E 3. adv.*							Bq ♃♀	24 *A 4. adv.*
15		□14	□2	□5.44			△♄♂17 Q♄♀	25 Nat. D.
16					✱13	□0	Td ♄☿	26 Stephan.
17 Lazarus	☌8	✱12	△10					27 Joan. Ev.
18 Christop.				△0	□21	△10	☍♃♂14	28 Innocent.
19								29
20							☽ Perig.	30 David
21 *E. 4. adv.*	✱9.	☌12.	☍16.		△1			31 *A.* Sylvest.
22 Theodos.				☍7.37		☍21.		1 *Ian.* 1646.
23	□9.							2
24 Ad. Eva							☽☊	3
25 Nat. Do.	△11	✱13			☍11		✱♄♀15.	4 Telesph.
26 Stephan.			△0.	△19.			△♃♀14.	5 Simeon
27 Joan.		□18				△17.	□♄☿7 Vc.♃☿	6 Epiphan.
28 *E. Infant.*			□10					7 *G 1. p. Epiph.*
29				□7.49				8 Erhardus
30 David	☍1	△2.			△12	□11.	♀ ferè in Elon. M	9
31 Sylvester			✱0				SS♀☿	10 Paul. Er.

Radices Mediorum motuum Planetarum ex Tabb. Rudolphinis excerptæ, & ad Meridianum Uraniburgicum meridiemq́; Calendarum Januar. Anni Juliani 1645. spectantes, ex Tychonis Brahei observationibus ac hypothesibus.

	S.	°	′	″
Præcessio Æquinoctiorum à prima ♈ stella	0	28	14	24
Longitudo media ☉ ab Æquinoctio verno	9	21	15	20
Apogæum Solis	3	6	29	20
Longitudo media ☽.	3	8	3	3
Apogæum Lunæ	7	10	10	38
Nodus Boreus Lunæ	1	22	52	53
Longitudo media ♄	0	26	46	47
Aphelium Saturni	8	26	53	6
Nodus Boreus Saturni	3	21	52	22
Longitudo media ♃	1	26	43	13
Aphelium Jovis	6	7	26	37
Nodus Boreus Jovis	3	5	28	32
Longitudo media ♂	2	29	34	51
Aphelium Martis	4	29	49	0
Nodus Boreus Martis	1	17	13	41
Motus medius ♀	6	0	55	9
Aphelion ♀	10	2	11	36
Nodus Boreus Veneris	2	13	35	13
Motus medius ☿	10	15	31	16
Aphelium Mercurij	8	14	6	40
Nodus Boreus Mercurij	1	13	27	53

FINIS

Ephemeridis Anni Christi 1645.

EPHEMERIS
MOTUUM COELESTIUM AD ANNUM
Incarnationis VERBI juxta æram Dionysianam, sed quam Ecclesia Occidentis hodiè nominat

A NATIVITATE JESU CHRISTI,
Domini & Servatoris nostri
M. DC. XLVI.

Numerabunt

Orientis & Scythiæ Christiani, à Conditu rerum	7154.
Judæi, Hebræi, & Rabini recentiores, à conditu rerum	5406.
Abyssini & Ægyptij Christiani, ab æra Dioclet. seu Martyrum	1362.
Sarraceni & Turcæ, ab Hegira seu fuga Muhammedis	1055.
Astronomi, à Nabonassaro annos Ægyptiacos 365 dier.	2394.
Ab obitu Alexandri M.	1969.

Estq; secundus à Bisextili, cujus character est Periodus Scaligerana 6359.

Eruuntur inde

In Juliano.		*In Gregoriano.*	
Cyclus ☉	3	Cyclus ☉	3
Cyclus ☽	13	Cyclus ☽	13
Indictio Romana	14	Indictio Romana	14
Litera Dominicalis	D.	Litera Dominicalis	G.
Intervallum 6 hebd. 3 dier.		Intervallum 6 hebd. 6 dier.	

Ingreditur ☉ 4 puncta Cardinalia, ad Meridianum Uraniburgicum, & tempus apparens, St. Vet.

♈ die 9 Martij H. 21. M. 49.	♎ d. 12. Septemb. H. 15. M. 43.
♋ d. 11 Junij H. 1. M. 7.	♑ d. 11. Decemb. H. 3. M. 21.

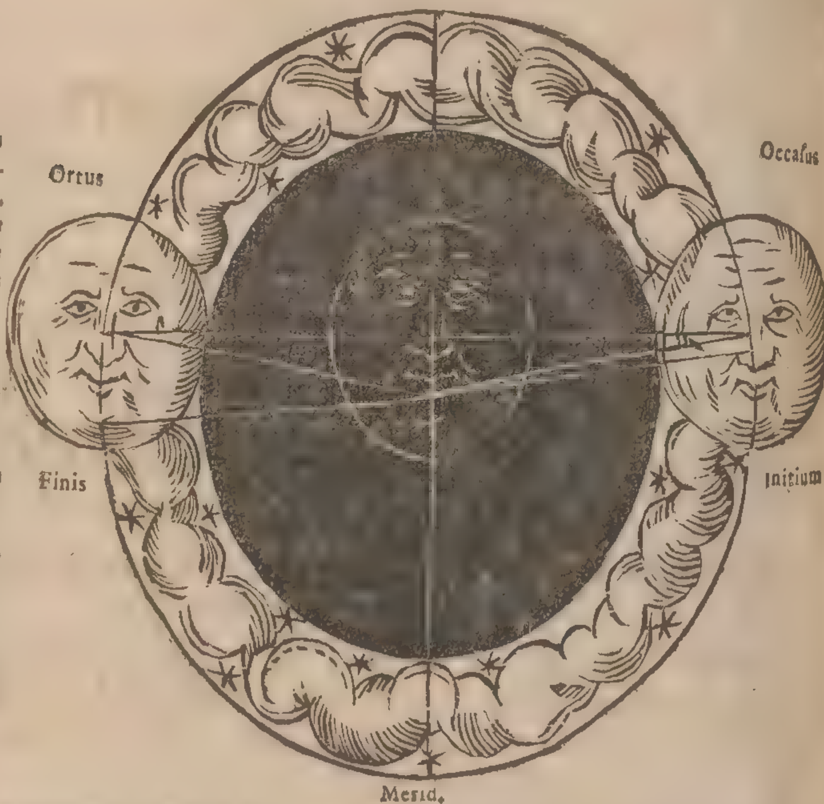
Descriptio Eclipsium Anni Christi 1646.

Quinquies hoc anno Luminaria deficiunt, ter Sol, bisq; Luna. Etsi verò nos in Europa priorem duntaxat ☽arem Eclipsin videbimus: calculum tamen reliquarum Eclipsium adjiciam, ad explicandas Tabb. Eclipsigraphicas, & captandam occasionem Sideralis scientiæ Candidatos, ubicunque etiam locorum degant, excitandi, ut suas Observationes cum Astronomis Europæis communicent.

I. Calculus Eclipsis Lunaris totalis nobis conspicuæ, ad 20. Januarij.

	Sexa v. dies	Grad. v. hor.	/	//
Media ☍ accidet p.m.	20 Ia.	23	34	43
Intervall. inter ver. & med. ☍ subtr.		4	45	36
Tempus apparens & correct. vera ☍		18	39	.3
Æquatio Æquinoctior. add.			9	53
Anomalia ☉ vera	3	34	0	39
Longitudo ☉ vera	5	11	42	46
Argumentum Latitud. ☽	0	1	41	46
Anomalia ☽ coæquat.	3	48	38	10
Longitudo ☽ vera	2	11	42	46
Latitudo ☽ S. A.			8	57
Sd. ☽ simplex			6	56
correcta			16	16
Sd Umbra terræ correct.			45	39
Aggregatum SSdd.			64	55

	Sexa v. dies	Grad. v. hor.	/	//
Pars deficiens			55	58
Hinc Digiti Ecliptici proveniũt		17	25	45
Scrupula casus & moræ dimidiæ			64	18
Quæ divisa per motũ horar. ☽			32	26
Tempus incidentiæ ostendunt		1	58	57
Ut tota duratio sit		3	5[illegible]	54
Et initium Eclipsis in Merid. Uraniburg. p.m.		16	40	16
Principium totalis obscurat. ☽		17	53	19
Medium defectus s. vera ☍ tempore appar.		18	39	13
Temp. emers. ☽ ex totali umbra		19	25	7
Finis Eclipsis tempore appar		20	38	0
Latitudo ☽ ad Eclips. Init.	S. A.		3	8
Latitudo ☽ ad Eclips. finem	S. A.		14	46



Luna verò in Meridiano Uraniburgico 19 hor. 48/ ☉ Oriente nõdum integrum Lumen consecuta occidit. In Meridiano a. hanc Eclipsin notabunt, qui Uraniburgo Occidentaliores sunt per 6 hor. 39/ sub Longitudine locorum 296 gr. 57/ quo pertinent illi qui habitant in Sinu Mexicano, & in nova Hispania, ac in vicinis locis, per qua iste Meridianus transit.

II. Calculus Eclipsis ☽ itidem totalis, sed nobis inconspicuæ.

Media ☍ Luminarium fit die 17 Iul St. V 3 hor. 59/2//. p m. Intervallum inter veram & mediam ☍ add. est 1 hor. 56/5//. Tempus apparens veræ Syzygiæ 5 hor. 45/43//. Æquatio Æquinoct add 9/55//. Anom. ☉ vera 0 Sex 28 gr. 55/0//. Longitudo ☉ vera 2 Sex 4 gr. 29/24//. Arg. Lat ☾ 3 Sex 3. gr. 53/16//. Anomalia ☽ coæquata 0 Sex. 21 gr. 38/ 32// Longitudo ☽ vera 5 Sex. 4 gr 29/24//. Lat. Lunæ M. A. 20/19//. Sd. ☽ 15/19//. Sd Umbræ terræ corr. 43/5//. Aggreg. SSdd. 58/24//. Pars deficiens 38/5//. Digiti Ecliptici 14 min. 55. sec. 6. Scrupula casus & moræ dimidiæ sunt 54/45// Tempus Incidentiæ 1 hor. 57/15// Tota duratio 3 hor. 54/30//. Sed nobis hæc ☍ Ecliptica esse nequit, quia ☽ deficiens nondum super Horizont. ascendit: ab iis autem videbitur in ortu, quorum Longitudo loci incipit à 40 gradibus.

Nam

Nam qui incolunt Finlandiam, Lithaniam, Moscoviam, iis ☽ deficiens orietur. In Meridie verò observabunt hanc obscurationem, qui numerant Longitudinem loci 30 gr. 19/. quiq; degunt in Regione Tartariæ Karkythay, in Turchestan, in India intra & extra Gangem, Golfo de Bengala, qui olim sinus Gangeticus dictus est; in Samatra Insula, &c. In occasu verò notabunt hanc defectionem Incolæ Anian & Quivira.

III. Calculus Eclipsis ☉ partialis, extra nostrum Horizont. ad 6 Januar. S.V.

Tempus mediæ ☌ fiet Uraniburgi, die 6 Ianuar. 5 hor. 12/42//p.m Intervallum inter mediam & veram Syzygiam add. est 7 hor. 25/30//. Tempus apparens veræ ☌ est 12 hor. 30/7//p.m Anomalia Æquinoctior. 3 Sex. 21 gr. 6/11//. Æquatio Æquinoctior. add. 9/53// Anomalia ☉ 3 Sex. 19 gr. 57/15//. Anomalia ☽ coæquat. 0 Sex. 35 gr. 42/55//. Argument. Latit ☽ 2 Sex 46 gr 26/55//. Latitudo ☽ vera Sept. D 1 gr. 10/13//. Loca Luminar. 27 gr. 12/10// ♑. Hæc ☌ a nobis Ecliptica esse nequit: quia ambo Luminaria versantur in imo cœli: illis verò erit Ecliptica, qui a Meridiano Uranib. versus ortum removentur per 9 hor. 58/49//. hoc est iis, qui subjacent Longitudini loci 186 gr. 27/. Nam illic locorum, sub lat. Sept 60 gr. ante merid. una hora 3./4//. seu à media nocte 10 h. 28/ 56//. vera ac visa ☌ Luminar. in 90 Eclipticæ gradu concurret, quo spectat regio Tenduc in extremitate Asiæ ad mare Occidentale fretumq; Glaciale excurrens, cui vicina sunt loca Regio Anian & Quivira Nam illic adpræfatum tempus datur Altitudo Luminar. 7 gr. 5/25//. Parallax ☉ 2/58//. Parall. ☽ 59/3// ☽ à ☉ vergens in Austrum 56/5// visa Latit. ☽ Septentr 14/8//. Sd ☉ 15/ 28// Sd ☽ correct. 10/43//. Aggreg. S Sdd. 26/11//. Pars deficiens 12/3//. Prodeunt igitur Digiti 4 min. 40.28//. Ad cognoscendum autem tempus durationis in promtu sit parallaxis Longitudinis ☽ ante unam hor. veræ & visæ ☌, ubi dantur hæc tria pro altitudine ☽: 1. distantia Horizont. & polor 30. 2 Excessus Declin. ☽ 109 gr 40/. 3. Distantia ☽ à medio cœli 27 gr. 4/. Patet ergo Altitudo ☽ 4 gr. 50/ Parallaxis ☉ 2/59//. Parall. ☽ 59/15//. Parall. ☽ à ☉ 56/16//. Distantia ☽ ab Horoscopo 28 gr 44/. Angulus Eclipticæ cum Verticali 8 gr. 7/40//. Parall. Longitud. ☽ 8/41//. Motus horarius ☽ verus 28/12//. Visus 19/31// Scrupula casus 22/2//. Tempus incidentiæ 1 hor. 7/44//. Tota duratio 2 hor. 15/28//.

IV. Calculus Eclipsis ☉ ad 2. Jul.

Tempus mediæ ☌ contingit d. 2. Jul. St. V. 9 hor 37/1//p.m. Intervallum inter ver. & med. ☌ subtr. 2 hor. 24/ 47//. Tempus apparens veræ ☌ Uranib. accidet die 2 Julii, 7 hor. 5/34//p.m. Anomalia ☉ 0 Sex. 14 gr. 11/ 7//. Anom. ☽ coæq. 3 Sex 9 gr 3/1//. Coæquatus motus Latit ☽ 5 Sex. 48 gr 50/23//. Latit. ☽ vera A. D. 58/0//. Loca Luminar. vera in 20 gr. 14/1// ♋. Nobis a. hæc Eclipsis inconspicua erit ob Latit. ☽ Australem. Observabunt autem eam, qui Uraniburgo sunt Occidentaliores per 7 hor. 59/38//. sub Longitud loci 276 gr. 51/ & Latitud. 52 gr. Australẽ. Ibi enim Luminaria h. 11. min. 5, sec. 56. à mediæ nocte in 90 Eclipticæ gradu congredientur. Qui igitur navigabunt per fretum Magellan. & Mare del Zur seu pacificum eam omnium optimè observabunt. Totalis a. erit hic defectus ☉: siquidem ex distantia polor. 38 gr. Excessu Declin. ☉ 112 gr. 0/ 10//. Distantia Luminar. à meridie 13 gr. 31/, colligitur Altitudo Luminar. 15 gr. 3/26// Parall. ☉ 2/54// ☽ 60/45//. ☽ à ☉ 57/5 //. Latitudo ☽ visa Australis 0/9//. Sd ☉ 15/ 1//. Sd ☽ correct. 15/41// Aggreg. S Sdd. 30/42//. Pars deficiens 30/33//. Quare proveniunt Digiti Ecliptici 12 min. 12 sec. 24. Proinde hæc ☌ planè erit centralis & totalis. Pro cognoscendo tempore durationis defectus ☉ laris ante unam horam ☌ veræ datur pro Altitudine ☽ distantia polor. 38 gr. 2. Excessus Declin. ☽ 111 gr/. 3/ Distantia ☽ à M.C. 27 gr. 48/ Datur igitur altitudo ☽ 17 gr. 1/. Parall. ☉ 2/55//. ☽ 61/16//. ☽ à ☉ 58/21//. Distantia ☽ à puncto Oriente 54 gr 8/. Angulus Eclipticæ cum Verticali 80 gr. 22/45//. Parallaxis Longitud. ☽. 9/44//. Motus horar. ☽ verus 33/29//. Visus 23/ 45//. Scrupula casus 30/42//. Tempus Incidentiæ 1. hor. 7/33// Tota duratio 2 hor. 35/ 6//.

V. Calculus Eclipsis ☉ ad 26. Decemb. St. Vet.

Tempus mediæ ☌ erit die 26 Decemb. St. Vet 14 h. 1/. 19//. Intervall. inter veram & med. Syzygiam subtr. 2 hor 5/16//. Tempus apparens veræ ☌ ad Meridianum Uraniburg. die 26 Dec. 11 hor. 50/40//. Anomalia ☉ 3 Sex. 8 gr. 49/ 51//. Anomal. ☽ coæq 5 Sex. 44 gr. 46/2 //. Coæqu. motus Lat. ☽ 2 Sex 53 gr 41/12// Latitudo ☽ veræ Sept. Desc. 32/57//. Loca Luminar. in 15 gr. 41/49// ♑ Hæc a. ☌ Luminarium nobis non erit Ecliptica: quia Luminaria adhuc infra Horizontem latent. Erit a Ecliptica iis, qui Uraniburgo per 12 hor. 10/ 4// sunt Occidentaliores, sub Longitudine loci 214 gr. 14/ & Lat Sept 20 gr. Iis enim h : 1. 40/ 36//. Luminaria in 90 Eclipticæ gradu copulabuntur; quo spectant habitatores Insulæ de S Pedro, Barbados, de Don Alfonso, de Paxaros; videbunt etiam eam, qui trans Æquatorem navigant & sub Tropico Cancri per mare Persicum deferuntur. Ad præfatum tempus autem, ex Distantia pol & Horiz. 70 gr. Excessu Decl. ☉ 112 gr. 3 / 20//. Distantia Luminar. à Meridie 4 gr 51/, elicitur altitudo Luminar 47 gr. 8/. Parall. ☉ 1 3//. ☽ 40/48//. ☽ à ☉ 38/45//. vergens in Austrum. Latitudo ☽ visa austral. 5/ 48//. Sd ☉ 15 /29//. Sd ☽ 15/ 17//. Aggreg. S Sdd 30/46// Pars deficiens 24/58//. Proveniunt igitur Digiti Ecliptici 9 min 40 sec. 30. Ad tempus a. durationis inquirendum dantur pro altitudine ☽ ante unam hor ☌ veræ ac visæ 1. distantia polor. & Horizont. 70 gr. 2 Excessus Decl. austr. 112 gr. 2/. 3. Distantia ☽ à M C 89 gr. 20/. & ipsa altitudo ☽ 43 gr. 55/10//. Parall. ☉ 2/9//. ☽ 43 9// ☽ à ☉ 41/0//. Distantia ☽ ab Horosc. 71 gr 3/. Angulus intersection. Eclipt. c. Verticat 70 gr. 43/30//. Parall. Longitud. ☽ 13/33//. Motus horar. ☽ verus 27/43// Visus 14/10// Scrupula casus 30/13//. Tempus Incidentiæ 2 hor. 7 59//. Tota duratio 4 hor. 15/58//. Illis a. qui propinquiores sunt Æquatori, & habitant sub Latitud. Sept. 13 & 14 gr. hæc Eclipsis major & ferè totalis apparebit. Vigilate vos navigantes, & quid tunc observaveritis cũ Astronom. cõmunicate.

Styl. Veteri	Stylo Novo	♄ Longit ♈ G. M.	Lat M D Z	♃ Longit. ♊ G. M.	Lat M D O	♂ Longit. ♑ G. M.	Lat M A O	☉ Longitudo ♑ G. M. S	♀ Longit ♓ G. M.	Lat M D I	☿ Longit. ♒ G. M.	La. M D I	☽ Longit. ♏ G. M.	Latit. S D G. M	☊ Longit. ♌ G. M.
1	11	27.48	31	28.12	5	10. 5	47	21.33.51	5. 7	13	5. 29	45	21.23	5 9	12.34
2	12	27.50	31	28. 6	5	10.51	47	22.35. 5	6. 17	9	7. 8	38	♐ 3 17	4 50	12.45
3	13	27.52	31	27.59	5	11.37	48	23.36.18	7. 26	5	8. 44	31	15. 8	4 18	12.42
4	☉14	27.54	31	27.53	4	12.23	48	24.37.31	8. 35	2 O.	10.18	24	26 59	3 36	12.24
5	15	27.56	30	27.46	4	13. 9	49	25.38.43	9. 44	58	11.49	17	♑ 8. 54	2 44	11.52
6	16	27.58	30	27.40	4	13.55	49	26.39.54	10.53	54	13.18	10 O.	20.54	1 44	11.10
7	17	28. 0	30	27.34	4	14 41	50	27.41. 5	12. 2	50	14.45	59	♒ 3 1	0 39 M	10.24
8	18	28. 2	29	27 28	4	15.27	50	28.42.15	13.10	47	16.10	48	15.17	0 29	9. 42
9	19	28. 4	29	27.22	4	16.14	51	29.43.24	14.18	43	17.33	37	27 44	1 36	9. 9
10	20	28. 6	29	27.17	4	17. 0	51	♒ 0. 44.32	15.26	39	18.50	26	♓ 10 23	2 40	8. 50
11	☉21	28. 9	29	27.11	3	17.46	51	1. 45.41	16.34	35	20. 2	15	23.14	3 36	8. 49
12	22	28.11	28	27. 6	3	18.32	52	2 46.48	17.42	30	21. 7	0 -S-	♈ 6. 18	4 24	9. 6
13	23	28.14	28	27. 1	3	19.19	52	3. 47.53	18.50	25	22. 6	15	19.38	4 57	9. 36
14	24	28 17	28	26.56	3	20. 5	53	4. 48.57	19.57	20	23. 0	30	♉ 3 15	5 15 -L-	10.17
15	25	28.20	27	26.51	3	20.51	53	5. 50. 0	21. 4	15	23.47	46 I	17. 9	5 15	10.59
16	26	28.23	27	26.46	3	21.37	54	6. 51. 2	22.11	10	24.25	1	♊ 1. 22	4 57	11.34
17	27	28.26	27	26.42	3	22.24	54	7. 52. 2	23.17	5	24.47	18	15 52	4 17	11.55
18	☉28	28.29	27	26.37	3	23.10	54	8. 53. 1	24.23	0 -S.	24.57	35	♋ 0. 34	3 23	11.54
19	29	28.32	26	26.33	2	23.56	55	9. 53.59	25.29	4	25. 0 -Retr.-	53 Z	15 23	2 13	11.29
20	30	28.36	26	26 29	2	24.43	55	10.54.55	26.35	9	24.53	10	♌ 0. 11	0 56 -S-	10.44
21	31 Fe.	28.39	26	26.25	2	25.29	56	11.55.51	27.41	14	24.33	28	14.50	0 26	9. 49
22	1	28.43	25	26.21	2	26.15	57	12.56.46	28.47	22	23.53	40	29 12	1 43	8. 58
23	2	28.46	25	26.17	2	27. 2	57	13.57.40	29.52	29	23. 9	52 3	♍ 13.18	2 53	8. 22
24	3	28.50	25	26.13	2	27.48	57	14.58.32	♈ 0. 57	36	22.21	4	26.59	3 51	8. 5
25	☉4	28.54	25	26.10	2	28.35	57	15.59.21	2. 2	44	21.29	16	♎ 10 15	4 34	8. 8
26	5	28.58	24	26. 7	1	29 21	58	17.0. 7	3. 6	51	20.33	28	23. 9	5 3	8. 27
27	6	29. 2	24	26. 4	1	♒ 0. 8	58	18.0. 52	4. 10	58 I	19.33	28	♏ 5. 36	5 16	8. 58
28	7	29. 6	24	26. 2	1	0. 54	59	19.1. 36	5. 14	5	18.26	28	17.49	5 14	9. 33
29	8	29.11	23	25.59	1	1. 41	59 I	20.2. 19	6. 18	13	17.14	28	29 48	4 59	10. 9
30	9	29.15	23	25.57	1	2. 28		21. 3. 1	7. 21	20	15.58	29	♐ 11 39	4 30	10.38
31	10	29.20	23	25.55	1	3. 4	0	22.3. 43	8. 24	27	14.50	29	23.27	3 52	11. 1

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ occid	♂ oriēt.	☉	♀ Occid	☿ Occi.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Circumci				✱ 0.				11 *Ian.*
2					□6	✱9		12
3							✱♄♃ 21	13
4 *D. Telesph.*	△2	☍2					☽ Apog.	14 *G 1.p. Ep.*
5 Simeon			☌9		✱2		(Eclips ☉	15
6 Epiphan.	□14			☌12.38			Vc.☉♃ SS ♂☿	16
7							□☉♄ s ☽☋.	17 Antonius
8 Erhardus		△23				☌2		18
9	✱0.							19
10			✱14		☌11.			20 Fab.Seb
11 *D 1.p. Ep.*		□7		✱17				21 *G 3.p.Epi.*
12			□23.				☿rij Max. El.à ☉	22 Vincent.
13	☌15.	✱13				✱5		23
14 Felix				□1.55			✱♂♀9	24
15			△6.		✱7	□12		25 Conv P.
16				△10				26 Polycar.
17 Anton.	✱20.	☌17.			□13	△15		27
18 *D 2.p.Ep*							SS♀☿ ☽ Perig.	28 *G. Sept.*
19	□21.		☍14.		△18		□♃♀22	29
20 Fab. Seb.				☍18.49			☽☊ Ecl.☽ totalis	30
21 Agnes	△23	✱19				☍15.	SS ♄♀	31
22							Vc. ♃♂	1 *Februar.*
23		□23						2 Purit.M.
24			△1.		☍8			3
25 *D. Sept*				△ 11.		△19.	□♄♂11 Q☉♄	4 *G. Sexag.*
26 Polycar	☍11	△6	□13					5
27						Oriēt	☌☉☿17	6 Dorothea
28				□4.5		□1		7
29			✱4		△13.			3
30				✱20.		✱8		9 Apollon.
31	△12	☍5						10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Long.
		♈	M. D Z	♊	M D O	♒	M A I	♒	♈	S A I	♒	S D 3	♑	S D	♌
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	☉11	29.24	22	25.53	1	4. 1	0	23.4. 24	9. 27	34	13.50	29	5. 17	3 2	11.1
2	12	29.29	22	25.52	0	4. 48	1	24.5. 2	10.29	38	12.55	19	17 13	2 5	11.
3	13	29.33	22	25.51	0	5. 35	1	25.5. 38	11.31	42	12. 6	10	29 19	1 0	10.4
4	14	29.38	22	25.50	0	6. 22	1	26.6. 11	12.33	46	11.23	2	♒ 11 36	M 0 7	10.
5	15	29.43	22	25.49	0	7. 8	2	27.6. 42	13.34	50	10.48	50	24 8	1 16	9. 2
6	16	29.47	21	25.49	0	7. 55	2	28.7. 11	14.35	54	10.20	41	♓ 6. 54	2 21	8. 3
7	17	29.52	21	25.48	0	8. 42	2	29 7. 38	15.35	58	10. 0	28	19 55	3 21	7. 5
8	18	29 57	21	25 48	0	9 .29	2	♓ 0. 8. 4	16.35	2	9. 49	15	♈ 3 10	4 11	7. 2
9	19	♉ 0. 2	21	25.48	0	10.16	3	1. 8. 28	17.34	6	9. 44	2 1	16 37	4 48	7. 1
10	20	0. 7	21	25.49	1	11. 3	3	2. 8. 50	18.33	10	Dir. 9. 44	49	♉ 0 15	5 9	7. 2
11	21	0. 12	20	25.49	1	11.50	3	3. 9. 10	19.31	14	9. 52	36	14. 1	5. 13 D	7.
12	22	0. 17	20	25.50	1	12.37	3	4. 9. 28	20.29	20	10. 8	24	27 55	4 59	8.
13	23	0. 2[illegible]	20	25.51	1	13.24	4	5. 9. 44	21.27	27	10 29	11 0	♊ 11.58	4 27	9. 1
14	24	0. 28	20	25.52	1	14.10	4	6. 9. 59	22 24	34	10.54	58	26. 8	3 38	9.
15	☉25	0. 33	19	25.53	1	14.57	4	7. 10.12	23.20	40	11.23	46	♋ 10 24	2 36	10.
16	26	0. 35	19	25.54	1	15.44	5	8. 10.23	24.16	47	11.57	33	24 45	1 24	10.
17	27	0. 45	19	25 55	1	16.31	5	9. 10.32	25.11	53 3	12.35	22	♌ 9 5	0. 6 S	10.
18	28	0. 50	19	25.57	2	17.18	5	10.10.39	26. 6	0	13. 7	11	23 21	1 11	9.
19	Ma 1	0. 56	19	25.59	2	18. 5	5	11.10 44	27. 0	6	14. 3	0	♍ 7 40	2 24	8. 4
20	2	1. 2	18	26. 1	2	18.51	6	12.10 47	27.53	13	14.53	M 11	21 35	3 25	7. 50
21	3	1. 8	18	26. 3	2	19.38	6	13.10.49	28.46	20	15.48	22	♎ 5 9	4 14	7.
22	4	1. 14	18	26. 6	2	20.25	6	14.10 48	29 38	26	16.47	31	18 19	4 48	6. 3
23	5	1. 20	18	26. 8	2	21.12	7	15.10.43	♉ 0. 29	33	17.47	40	♏ 1. 7	5 7 D	6. 2
24	6	1. 26	18	26.11	2	21.59	7	16.10.35	1. 19	40	18.49	49	13.36	5 10	6.
25	7	1. 33	17	26.14	2	22.46	7	17.10.26	2. 8	46	19 52	58	25 50	4 58	6.
26	8	1. 39	17	26 17	3	23.32	7	18.10.15	2. 56	53	20.57	1 7	♐ 7 50	4 34	7.
27	9	1. 45	17	26.20	3	24.19	8	19.10. 3	3. 44	4 0	22. 5	15	19 40	3 57	8. 4
28	10	1. 52	17	26.24	3	25. 6	8	20.9. 49	4. 31	7	23.15	22	♑ 1 27	3 13	8. 3

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ occid.	♂ oriét.	☉	♀ Occid	☿ oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *D. Sexag.*					□9		☽ Apog.	11 *Febr. G.*
2 Purif. M.								12
3	□0.		☌13			☌23.	△☉♃17. ✱♀☿8	13
4					✱2		(☽☋	14 Cinerum
5 Agatha	✱10.	△3		☌6.5			♀ in max. Elong.	15
6 Doroth.							Q♃♀	16
7		□10.					✱☉♄ 19	17
8 *D Quinq.*			✱12			✱12	☌♂☿ 9	18 *G Invoc.*
9 Apollon.		✱16			☌2		☿ station. in ☌♂	19
10	☌0		□20	✱3.		□17.		20
11 Cinerum								21
12				□11.25		△21.		22 Cath. P.
13		☌23.	△2		✱17			23
14 Valentin.	✱7.			△18			☽ Perig.	24 Matthias
15 *D. Invoc.*					□23		Td ☉♃ Q♀☿. A-	25 *G. Remin.*
16	□10						spe. raris. hor Pl.	26
17			☍13			☍6	✱♃♀ 20 ☽☊.	27
18 Concord	△12.	✱4.			△5			28
19				☍6.31				1 *Martii.*
20		□8					Q♄♂	2
21						△21		3
22 *D. Rem.*		△14.	△4		☍23			4 *G. Oculi*
23	☍0.						Dist. ☿ max à ☉	5
24 Matthias			□17.	△5		□11	☌♄♀4	6
25							Q♀☿	7 Perpetua
26				□22.5				8
27		☍15	✱11			✱5.		9
28	△1				△7		☽ Apog.	10

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit	Lat	Longit	Lat	Longit.	Lat	Longitudo	Longit	Lat	Longit.	La	Longit	Latit.	Longit
		♉	M D Z	♊	S A O	♒	M A I	♓	♉	S A 4	♒	M A I	♑	S D	♌
		G. M.		G. M		G. M.		G M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	⊙ 11	1. 58	16	26.27	3	25.53	8	21.9. 32	5. 16	13	24.28	30	13.15	2 18	9. 9
2	12	2. 4	16	26.31	3	26.40	8	22.9. 14	6. 1	20	25.42	35	25.11	1 17	9. 29
3	13	2. 11	16	26.35	3	27.27	8	23.8. 53	6. 45	26	26.58	41	♒ 7. 18	0 13 M	9. 36
4	14	2. 17	16	26.39	3	28.14	8	24.8. 30	7. 28	33	28.16	47	19 44	0 53	9. 27
5	15	2. 24	16	26 44	3	29. 0	8	25.8. 4	8. 10	39	29 36	52	♓ 2. 35	1 59	9. 1
6	16	2. 31	16	26.49	3	29 47	9	26.7. 36	8. 51	45	♓ 0. 57	58 2	15.42	3 0	8. 19
7	17	2. 38	16	26.54	3	♓ 0. 34	9	27.7. 6	9. 31	52	2. 20	2	29. 6	3 53	7. 30
8	⊙ 18	2. 44	16	26.59	4	1. 21	9	28.6. 34	10.10	58	3. 45	5	♈ 12.43	4 32	6. 41
9	19	2. 51	15	27. 4	4	2. 8	9	29.6. 0	10.47	5 5	5. 11	9	26.33	4 58	6. 3
10	20	2 58	15	27.10	4	2. 55	9	♈ 0. 5. 25	11.23	11	6. 37	13	♉ 10.33	5 5	5. 42
11	21	3. 5	15	27.15	4	3. 41	9	1. 4. 47	11.58	18	8. 3	16	24.42	D 4 54	5. 44
12	22	3. 12	15	27.21	4	4. 28	9	2. 4. 6	12.31	23	9. 28	18	♊ 8. 52	4 25	6. 6
13	23	3. 19	15	27.27	4	5. 15	9	3. 3. 23	13. 3	28	10.53	20	22.59	3 40	6. 42
14	24	3. 26	15	27.33	4	6. 2	9	4. 2. 38	13.33	33	12.18	22	♋ 7. 3	2 41	7. 25
15	⊙ 25	3. 33	15	27.39	4	6. 49	9	5. 1. 51	14. 1	39	13.46	23	21. 3	1 33	8. 6
16	26	3. 40	15	27 46	4	7. 36	9	6. 1. 1	14.28	44	15. 9	25 D	♌ 5. 0	0 50	8. 37
17	27	3. 48	14	27.52	4	8. 22	9	7. 0. 9	14.53	49	16.48	24	18.53	0 54	8. 51
18	28	3. 55	14	27.59	5	9. 9	9	7. 59.13	15.16	55 6	18.33	22	♍ 2. 41	2 3	8. 43
19	29	4. 2	14	28. 6	5	9. 56	9	8. 58.18	15.37	0	20.22	21	16.22	3 5	8. 16
20	30	4. 10	14	28.13	5	10.43	10	9. 57.19	15.56	5	22.14	19	29.53	3 56	7. 33
21	31 A	4. 17	14	28.20	5	11.30	10	10.56.19	16.13	11	24.10	18	♎ 13.12	4 33	6. 44
22	⊙ 1	4. 24	14	28.27	5	12.16	10	11.55.17	16.28	13	26. 1	14	26 16	4 54	5. 57
23	2	4. 32	14	28.35	5	13. 3	10	12.54.13	16.41	16	27.49	11	♏ 9. 3	5 1 D	5. 21
24	3	4. 39	14	28.42	5	13.50	10	13.53. 7	16.51	18	29 34	8	21.32	4 52	5. 0
25	4	4. 46	13	28 50	5	14.37	10	14.51.58	16 59	21	♈ 1. 20	4	♐ 3. 45	4 30	4. 55
26	5	4. 54	13	28.58	5	15.24	10	15.50.47	17. 5	23	3. 8	1	15.45	3 57	5. 6
27	6	5. 2	13	29. 6	5	16.10	10	16.49.35	17.10	26	4. 58	I 55	27.35	3 14	5. 29
28	7	5. 10	13	29.14	6	16.57	10 D	17.48.20	17.12	28	6. 51	49	♑ 9. 21	2 23	6. 0
29 ⊙	8	5. 17	13	29.22	6	17.44	10	18.47. 2	Retr. 17.12	30	8. 46	42	21. 8	1 25	6. 35
30	9	5. 25	13	29.30	6	18.31	10	19.45.42	17.10	33	10.43	36	♒ 3. 2	0 23	7. 10
31	10	5. 33	13	29.38	6	19.17	10	20.44.20	17. 5	35	12.41	30	15. 9	M 0 40	7. 39

Stylo Veteri	SYZYGIÆ LUNARES. ♄ occid.	♃ occid.	♂ oriét.	☉	♀ occid.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *D. Oculi*				△17.			△♃♂ 19	11 *Martii.* G.
2	□ 4				□ 23		△♃☿ 16.	12 Gregor.
3							☌♂☿ 21.	13
4 Adrian.	✱ 13.	△ 13	☌ 17			☌ 18	☽☋	14
5					✱ 11			15
6		□20		☌ 20.11			□☉♃ 18	16
7							✱♄☿ 5.	17 Gertrud.
8 *D Lat.*								18 *G. Iudica*
9	☌ 11	✱ 1	✱ 10			✱ 16.		19
10					☌ 1.		✱♄♂ 2	20
11			□16	✱ 11.			Td ♃☿	21 Benedict.
12 Gregor.						□ 1		22
13	✱ 18	☌ 7.	△ 22	□ 18 .28			SS ☉♄ ☽ Perig.	23
14					✱ 11.	△ 10		24
15 *D. Iud.*	□ 22						✱♀☿ 6.	25 *G. Palm.*
16				△ 2	□ 17		☽☊	26
17 Gertrud.		✱ 16						27
18	△ 2		☍ 12		△ 22.			28
19 Josephus		□ 21				☍ 8.	Td ♃♂	29
20				☍ 9.35				30 Guido
21 Bened.								31
22 *D. Palm.*	☍ 15.	△ 4						1 *G. Pascha*
23			△ 8		☍ 15		□♃☿ 11 SS ☉♂	2
24						△ 18.		3
25 An. Mar.			□ 23					4 Ambros.
26				△ 22.			☽ Apog.	5
27	△ 15.	☍ 3				□ 18	ss ♄☿ ss ☉♀ Q ☉♃	6
28			✱ 16.	□ 18.47	△ 16		✱♂♀ 7. ♀ stat. in (✱♂	7
29 *D. Pasch.*								8 *G. Quasim.*
30	□ 5					✱ 18	☽☋	9
31				✱ 12	□ 4			10

Styl. Veteri	Stylo Novo ⊙	♄ Longit ♉ G. M.	Lat M D Z	♃ Longit. ♊ G. M.	Lat S A O	♂ Longit ♓ G. M.	Lat M D I	☉ Longitudo. ♈ G. M. S	♀ Longit ♉ G. M.	Lat S A 6	☿ Longit. ♈ G. M.	La. M D I	☽ Longit. ♒ G M.	Latit. M A G. M.	☊ Longit. ♌ G. M.
1	11	5. 40	13	29.46	6	20. 4	10	21.42.57	16.57	38 D	14.40	24	27 34	1 43	7. 58
2	12	5. 47	12	29.54	6	20.51	10	22.41.32	16 46	35	16.42	15	♓ 10 21	2 43	8. 1
3	13	5. 54	12	♋ 0. 2	6	21.37	10	23.40. 5	16.32	32	18.46	7 0	23 33	3 36	7. 45
4	14	6. 2	12	0. 11	6	22.24	10	24.38.36	16.15	28	20.50	58	♈ 7. 10	4 20	7. 11
5 ☉	15	6. 9	12	0. 20	6	23.10	10	25.37. 4	15.56	25	22.55	49	21 12	4 48	6. 22
6	16	6. 17	12	0 .29	6	23.56	10	26.35.30	15.35	22	25. 1	41	♉ 5. 32	4 59	5. 29
7	17	6. 24	12	0. 38	7	24.43	9	27.33.55	15.12	19	27. 8	30	20. 4	4 50	4. 42
8	18	6. 31	12	0. 47	7	25.29	9	28.32.19	14.47	16	29.15	20	♊ 4 41	4 24	4. 1
9	19	6. 39	12	0. 56	7	26.15	9	29.30 40	14.20	13	♉ 1. 22	10	19.15	3 39	4. 8
10	20	6. 46	12	1. 6	7	27. 1	9	♉ 0. 28.58	13.51	10	3. 30	0 S	♋ 3. 40	2 46	1. 25
11	21	6. 53	12	1. 15	7	27.48	9	1. 27.13	13.20	6	5. 38	10	17 53	1 33	4 56
12 ☉	22	7. 1	12	1. 25	7	28.34	9	2 25.27	12.47	56	7. 47	21	♌ 1. 53	0 22	5. 41
13	23	7. 8	12	1. 34	7	29.20	8	3. 23.39	12.12	46	9. 57	32	15.41	0 50	6. 2
14	24	7. 16	12	1. 44	7	♈ 0. 6	8	4. 21.50	11.35	36	12. 8	42	29 17	1 59	6. 56
15	25	7. 24	12	1. 54	7	0. 52	8	5. 19.59	10.57	26	14.20	53	♍ 12 43	3 0	7. 1
16	26	7. 31	12	2. 4	7	1. 39	8	6. 18. 6	10.18	16	16.33	1 4	25 59	3 51	7. 1
17	27	7. 39	12	2. 14	7	2. 25	8	7. 16.11	9. 39	6 4	18.38	13	♎ 9. 7	4 27	6. 5
18	28	7. 46	12	2. 24	7	3. 11	8	8. 14.15	9 0	56	20.40	22	22. 4	3 50	6. 22
19 ☉	29	7. 54	12	2. 35	8	3. 57	7	9. 12 17	8. 21	46	22.39	31	♏ 4. 50	4 59 D	5. 37
20	30	8. 2	12	2. 45	8	4. 43	7	10.10.17	7. 42	36	24.35	40	17.24	4 52	4. 51
21	Ma 1	8. 10	12	2. 56	8	5. 29	7	11.8. 16	7. 3	25	26 29	48	29 45	4 31	4. 5
22	2	8. 18	12	3. 7	8	6. 14	7	12.6. 13	6. 26	11	28.20	54	♐ 12.53	3 58	3. 48
23	3	8. 26	12	3. 18	8	7. 0	7	13.4. 9	5. 50	3 57	♊ 0. 7	59 Z	23 50	3 15	3. 23
24	4	8. 34	12	3. 29	8	7 46	7	14.2. 3	5. 14	43	1. 51	5	♑ 5 40	2 25	3. 22
25	5	8. 42	12	3 40	8	8. 32	6	14.59.55	4. 39	29	3. 32	11	17 25	1 28	3. 36
26 ☉	6	8. 50	12	3. 51	8	9. 17	6	15.57.45	4. 5	14	5. 10	16	29 13	0 27	4. 1
27	7	8. 58	12	4. 2	8	10. 3	6	16.55.34	3. 33	0 2	6. 44	17	♒ 11. 6	M 0 35	4. 34
28	8	9. 6	12	4. 13	8	10.49	6	17.53.21	3. 3	46	8. 14	19	23.11	1 38	5. 11
29	9	9. 14	12	4. 25	8	11.34	6	18.51. 7	2. 35	32	9. 40	20	♓ 5. 34	2 37	5. 49
30	10	9. 22	12	4. 37	9	12.20	6	19.48.51	2. 9	17	11. 2	22	18.20	3 30	6. 13

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ occid.	♃ occid.	♂ oriēt.	☉	♀ occid.	☿ Oriēt.		
1	⚹ 15.	△4						11 *Aprilis.*
2			☌20		⚹12.		SS♀☿ Q♃☿	12
3		□11.						13
4 Ambros.								14 Tiburt.
5 *D.Quas.*		⚹5.		☌7.56		☌3.	SS♂☿	15 *G.Mis.D.*
6	☌1				☌17			16
7			⚹8			occid.	☌☉☿9	17
8							⚹♃☿19	18
9		☌19.	□12	⚹18		⚹23.	☽ Perig.	19
10	⚹5				⚹18		⚹☉♃18	20
11			△18				☌♄☿15	21
12 *D.Mis.D.*	□9			□1.0	□19.	□12	☽☊	22 *G.Iubil.*
13							☌♀☿19.	23 Georgius
14 Tiburt.	△14.	⚹5		△10	△21			24
15						△3.		25 Marcus
16		□11	☍11				□♃♂16.	26
17	orient						☌☉♄11	27
18		△20					☌☉♀11.	28
19 *D. Iubil.*	☍6			☍9.2	☍6.		☌♄♀14	29 *G. Cant.*
20					Oriēt.	☍6.		30
21			△11					1 *Maji*
22							SS♂♀ ☽ Apog.	2
23 Georgius		☍19.			△23			3 Invent. ✠
24	△6		□4.	△18.				4
25 Marcus							SS♄♂. SS♃☿ SS♀☿	5
26 *D.Cant.*	□19.		⚹12		□9	△14	⚹♃♀8 ☽☋	6 *G.Voc.I.*
27				□12.36				7
28		△2[illegible]			⚹18		SS♄☿	8 Stanislaus
29	⚹7					□8.		9
30				⚹3				10 Adsc. D.

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	♄ Lat M. A Z	♃ Longit. ♋ G. M.	♃ Lat S A O	♂ Longit ♈ G. M.	♂ Lat M D I	☉ Longitudo. ♉ G. M. S.	♀ Longit ♉ G. M.	♀ Lat S D Z	☿ Longit. ♊ G. M.	☿ Lat S A Z	☽ Longit. ♈ G. M.	☽ Latit. M A G. M	☊ Longit ♌ G. M.
1	11	9. 30	12	4. 49	9	13. 5	5	20.46.33	1. 45	3 1	12.20	23 D	1. 33	4 13	6. 27
2	12	9. 37	12	5. 0	9	13.51	5	21.44.14	1. 23	50	13.34	20	15.14	4 44	6. 22
3 ☉	13	9. 45	12	5. 12	9	14.36	5	22.41.53	1. 4	37	14 44	17	29.23 ♉	5 0 D	5. 56
4	14	9. 53	12	5. 23	9	15.22	4	23.39.31	0. 47	24	15.50	14	13.57	4 55	5. 10
5	15	10. 0	12	5. 35	9	16. 7	4	24.37. 8	0. 33	11 0	16.53	10	28 47 ♊	4 32	4. 15
6	16	10. 8	12	5. 46	9	16.52	3	25.34.44	0. 22	58	17.53	7 1	13 46	3 49	3. 23
7	17	10.16	12	5. 58	9	17.38	3	26.32.19	0. 13	45	18.48	59	28.43 ♋	2 50	2. 47
8	18	10.23	12	6. 10	9	18.23	3	27.29.52	0. 7	32	19.38	52	13.31	1 41	2. 34
9	19	10.31	12	6. 22	9	19. 8	2	28.27.24	0. 3	19	20.23	44	28. 3 ♌	0 27 S	2. 46
10 ☉	20	10.39	12	6. 34	9	19.53	2	29 24.55 ♊	0. 2 Dir.	6 M	21. 4	36	12 16	0 49	3. 15
11	21	10.46	12	6. 46	9	20.38	1	0. 22.25	0. 3	7	21.40	28	26. 8 ♍	1 59	3. 56
12	22	10.54	12	6. 58	10	21.23	1	1. 19.54	0. 6	17	22.11	16	9 41	3 2	4. 37
13	23	11. 1	12	7. 10	10	22. 8	1	2. 17.21	0. 11	26	22.38	4 0	23. 7 ♎	3 53	5. 13
14	24	11. 8	12	7. 23	10	22.53	0	3. 14.47	0. 19	36	23. 1	52	5. 58	4 31	5. 37
15	25	11.15	12	7. 35	10	23.37	0 0	4. 12.12	0. 29	45	23.20	40	18 47 ♏	4 55	5. 44
16	26	11.22	12	7. 47	10	24.22	59	5. 9. 36	0. 42	55 1	23.34	28	1. 25	5 3 D	5. 34
17 ☉	27	11.29	13	8. 0	10	25. 7	59	6. 6. 59	0. 57	4	23.42	12	13.53	4 57	5. 8
18	28	11.36	13	8. 12	10	25.52	58	7. 4. 21	1. 14	14	23 48 Retr.	4 M	26 12 ♐	4 38	4. 29
19	29	11.43	13	8. 25	10	26.37	58	8. 1. 42	1. 32	23	23 45	19	8 21	4 6	3. 45
20	30	11.50	13	8. 37	10	27.22	58	8. 59. 2	1. 52	33	23.39	35	20 22	3 23	3. 1
21	31	11.57	13	8. 49	10	28. 6	57	9. 56.20	2. 14	42	23.29	51	♑ 2. 15	2 31	2. 23
22	Iu. 1	12. 4	13	9. 1	10	28.51	57	10.53.39	2. 38	48	23.12	1 8	14. 4	1 33	1. 58
23	2	12.11	13	9. 13	10	29 35 ♉	56	11.50.57	3. 4	54 Z	22.53	25	25 51 ♒	0 32 M	1. 47
24 ☉	3	12.18	13	9. 26	11	0 19	56	11.48.13	3. 32	0	22.32	42	7 40	0 31	1. 50
25	4	12.25	13	9. 39	11	1. 3	56	13 45.28	4. 2	6	22. 8	59 Z	19 35 ♓	1 34	2. 9
26	5	12.32	13	9. 52	11	1. 47	55	14.42 42	4. 33	11	21.41	16	1. 41	2 33	2. 38
27	6	12.39	13	10. 5	11	2. 31	55	15.39.56	5. 5	17	21.12	31	14. 3	3 27	3. 14
28	7	12 46	13	10.18	11	3. 15	54	16.37. 9	5. 38	23	20.40	46	26 46	4 13	3. 53
29	8	12.53	13	10.31	11	3. 59	54	17.34.22	6. 12	29	20. 6	3 1	♈ 9. 55	4 46	4. 27
30	9	13. 0	13	10.44	11	4. 43	54	18.31.34	6. 47	35	19.30	15	23.31	5. 4	4. 49
31 ☉	10	13. 7	13	10.57	11	5. 27	53	19.28.46	7. 23	41	18.54	30	♉ 7. 38	5. 7 D	4. 53

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ occid	♂ Oriét.	☉	♀ Oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1		□6	☌21			✱21		11 *Maji.*
2							✱♂☿18	12
3 *D. Voc. Iuc.*	☌17	✱10			☌3			13 *G. Exaudi*
4				☌16.47				14
5 Gothard.							(☽) Perig.	15 Sophia
6			✱5			☌7	Digr. Max. ☿ à ☉ (	16
7 Asc.D.	✱19	☌12			✱2.			17
8			□8.					18
9	□21			✱1	□3.		☽☊	19 Bernhard.
10 *D. Exaud*			△11			✱16	SS☉♀	20 *G. Pentec.*
11		✱19		□8.4	△7			21
12	△2					□13		22
13 Servatius				△17				23
14		□3						24
15 Sophia			☍10		☍22.	△9		25 Urbanus
16	☍19.	△12.						26
17 *D. Pentec.*								27 *G. Trin.*
18				☍23.17			Q♃♂	28
19 Bernhar.							SS☉♃	29
20			△15			☍6.	☽ Apog.	30
21	△19	☍14			△0			31 Corp. Chr.
22								1 *Iunij.*
23			□8		□15		☽☋	[illegible]
24 *D. Trinit.*	□9.			△9			SS☉♄	3 *G. 1. p. Tr.*
25 Urbanus						△5		4
26	✱21	△16	✱0		✱6			5 Bonifacius
27				□3.17		□13		6
28								7
29		□1		✱14.		✱19		8 Medard.
30			☌20		☌23.		☌☉☿15	9
31 *D 1. p Tr*	☌9	✱5.				Oriét.		10 *G 2. p. Tr.*

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♉	M. A	♋	S A	♉	M D	♊	♉	M A	♊	M A	♉	M	♌
		G. M.	Z	G. M.	O	G. M.	O	G. M. S.	G. M.	Z	G. M.	3	G. M.	G. M	G. M
1	11	13.14	13	11.10	11	6. 11	53	20.25.57	8. 1	46	18.20	45	22.11	4 48	4. 34
2	12	13.21	14	11.23	11	6. 55	52	21.23. 8	8. 41	49	17.47	53 4	♊ 7. 5	4 12	3. 54
3	13	13.28	14	11.36	11	7. 39	52	22.20.18	9. 22	52	17.15	2	22.14	3 16	2. 59
4	14	13.34	14	11.49	11	8. 23	51	23.17.27	10. 4	55	16.44	10	♋ 7. 24	2 5	2. 3
5	15	13.41	14	12. 2	12	9. 7	50	24.14.36	10.47	58 3	16.16	19	22 29	0 47	1. 21
6	16	13.48	14	12.15	12	9. 51	50	25.11.44	11.31	1	15.51	28	♌ 7 19	S 0. 33	1. 2
7 ⊙	17	13.54	14	12.28	12	10.35	49	26.8. 52	12.16	4	15.30	29	21.49	1 50	1. 7
8	18	14. 0	14	12.41	12	11.18	48	27.6. 0	13. 1	7	15.14	30	♍ 5. 54	2 57	1. 32
9	19	14. 7	15	12.54	12	12. 2	48	28.3. 7	13.47	10	15. 1	32	19 35	3 53	2. 9
10	20	14.13	15	13. 7	12	12.45	47	29.0. 14	14.33	13	14 52	33	♎ 2 52	4 35	2. 49
11	21	14.19	15	13.20	12	13.28	47	29.57.20	15.20	16	14.47 Dir.	34 D	15 49	5 1	3. 27
12	22	14.25	15	13.33	12	14.11	46	♋ 0. 54 27	16. 8	17	14 45	29	28 29	5. 13	3. 55
13	23	14.31	15	13.47	12	14.54	45	1. 51.34	16.57	18	14.51	25	♏ 10 56	D 5 8	4. 9
14 ⊙	24	14.37	15	14. 0	12	15.37	45	2. 48.41	17.46	19	15. 1	20	23 8	4 50	4. 8
15	25	14.43	15	14.13	12	16.20	44	3. 45.48	18.36	20	15.16	15	♐ 5. 14	4 18	3. 50
16	26	14.49	16	14.26	13	17. 3	44	4. 42.55	19.27	20	15.35	10	17.13	3 36	3. 15
17	27	14.55	16	14.40	13	17.46	43	5. 40. 1	20.18	21	15.59	1	29. 6	2 46	2. 35
18	28	15. 1	16	14.53	13	18.28	42	6. 37. 7	21.10	22	16.28	3 52	♑ 10 57	1 47	1. 5-
19	29	15. 7	16	15. 6	13	19.11	42	7. 34.13	22. 3	23	17. 2	43	22.46	0 44	1. 12
20	30	15.12	16	15.20	13	19.54	41	8. 31.19	22.57	24	17.41	33	♒ 4 37	M 0 21	0. 38
21	Iul ⊙ 1	15.18	16	15.33	13	20.36	40	9. 28.24	23.52	25 D	18.24	24	16.31	1 25	0. 18
22	2	15.24	16	15.47	13	21.19	40	10.25.30	24.46	24	19.12	12	28 33	2 26	0. 12
23	3	15.29	17	16. 0	13	22. 1	39	11.22.37	25 41	24	20. 4	0 2	♓ 10 44	3 22	0. 22
24	4	15.35	17	16.14	13	22.43	39	12.19 44	26.36	23	21. 1	48	23 10	4 9	0. 47
25	5	15.40	17	16.27	13	23.26	38	13.16.51	27.31	22	22. 3	36	♈ 5. 53	4 46	1. 21
26	6	15.45	17	16.41	13	24. 8	37	14.13 57	28.27	22	21. 9	24	18.57	5 9	2. 1
27	7	15.50	17	16.54	14	24.50	37	15.11. 4	29 23	21	24.19	11	♉ 2. 26	D 5 16	2. 35
28 ⊙	8	15.55	17	17. 8	14	25.32	36	16.8. 12	♊ 0. 20	20	25.34	1 52	16 22	5 5	3. 9
29	9	16. 0	17	17.21	14	26.14	35	17.5. 21	1. 17	20	26.53	44	♊ 0. 44	4 29	3. 21
30	10	16. 5	18	17.35	14	26.56	35	18.2. 30	2. 14	19	28.16	31	15.29	3 47	3. 10

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Orien.	♃ occid.	♂ oriẽt.	☉	♀ Oriẽt.	☿ oriẽt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1								11 *Iunij*
2						☌16.		12
3 Erasmus				☌ 0,10			☽ Perig.	13
4	✱ 10	☌ 7	✱ 1.		✱ 4.			14
5 Bonifac.							☽☊	15 Vitus ♄.
6	□ 11		□ 4.		□7.	✱14		16
7 *D 2.p.Tr.*				✱ 8			✱♃♀ 9	17 *G 3.p.Tr.*
8 Medard.	△14.	✱ 12	△ 10		△13	□16		18
9				□16.28			☌♄♀ 12	19
10		□ 19				△ 22	✱♃♂17. SS♀☿	20
11								21
12				△ 5			☌♄♂9 SS♂☿	22 X.M.Mar.
13	☍ 7	△ 6	☍ 8		☍13			23
14 *D 3.p.Tr.*								24 *G 4.p.Tr.*
15 Vitus						☍ 20.		25
16								26
17				☍ 14.28			☽ Apog.	27
18	△ 8.	☍ 8	△ 16		△ 22.			28
19							✱♄♃ 2. ☽☋	29 Petr.Pau.
20	□ 21.							30
21 *D 4.p.Tr.*			□8.		□16	△ 4		1 *G 5.p.Tr.*
22								2 Visit.Mar.
23	✱9	△ 10.	✱23	△1.		□19.	Elong. max. ☿	3
24 Jo.Bapt.					✱7			4 Ulricus
25		□ 20		□14.39				5
26						✱ 8		6
27	☌ 13			✱ 23.			✱☉♄ 18. SS ♂☿	7
28 *D 5.p.Tr.*		✱ 1	☌16					8 *G 6.p.Tr.*
29 Pet.Paul.		Orien.			☌ 0.		☌☉♃ 9	9
30						☌ 23	Elong. max. ♀.	10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit	☊ Longit.
		♉	M A	♋	S, A	♉	M D	♋	♊	M D 3	♊	M D I	♋	M D	♌
		G. M.	Z	G. M.	O	G. M.	O	G. M. S	G. M.	3	G. M.	I	G. M.	G. M.	G. M.
1	11	16.10	18	17.48	14	27.37	34	18.59.39	3. 12	18	29.43	17	0. 32	2 40	2. 25
2	12	16.15	18	18. 1	14	28.18	33	19.56.48	4. 10	16	♋ 1. 14	4	15.42	1 23	1. 42
3	13	16.20	18	18.15	14	29. 0	33	20.53.57	5. 9	14	2. 49	0 51	♌ 0 51	S 0 0	0 45
4	14	16.25	18	18.28	14	29 41	32	21.51. 6	6. 8	12	4. 28	38	15.51	1 22	♋ 29.59
5 ☉	15	16.29	19	18 42	14	♊ 0. 23	31	22.48.16	7. 8	11	6. 10	25	♍ 0. 33	2 37	29.33
6	16	16.34	19	18.55	14	1. 4	30	23.45.27	8. 8	9	7. 55	13	14.51	3 40	29.30
7	17	16.38	19	19. 9	15	1. 46	29	24.42.38	9. 9	7	9. 44	S 1	28 43	4 29	29 48
8	18	16.43	19	19.22	15	2. 27	29	25.39.50	10.10	5	11.36	10	♎ 12. 8	5 0	♌ 0 19
9	19	16.47	19	19.36	15	3. 8	28	26.37. 3	11.11	3	13.31	21	25. 8	5 15	0. 58
10	20	16.51	20	19 49	15	3. 49	27	27.34.17	12.12	1	15.30	32	♏ 7. 46	D 5 15	1. 36
11	21	16.55	20	20. 3	15	4. 30	26	28.31.31	13.13	·2· 59	17.32	43	20. 6	5 0	2. 8
12 ☉	22	16.59	20	20.16	15	5. 11	25	29 28.46	14.15	56	19.36	52	♐ 2. 13	4 31	2. 29
13	23	17. 3	20	20.29	15	5. 52	25	♌ 0. 26. 2	15.17	54	21.42	·1· 0	14.11	3 51	2. 36
14	24	17. 7	20	20.43	15	6. 33	24	1. 23.19	16.20	51	23.49	8	26 2	3 1	2. 29
15	25	17.10	21	20.56	15	7. 13	23	2 20.37	17.23	48	25.58	16	♑ 7. 51	2 5	2. 6
16	26	17.14	21	21. 9	15	7. 54	23	3. 17.55	18.26	45	28. 8	24	19 40	1 2	1. 31
17	27	17.17	21	21.22	16	8. 35	22	4. 15.14	19.29	42	♌ 0. 16	28	♒ 1. 33	M 0 3	0. 48
18	28	17.20	21	21.35	16	9. 15	21	5. 12.34	20.33	39	2. 23	31	13.30	1 9	0. 4
19 ☉	29	17.24	21	21.48	16	9. 56	21	6. 9. 55	21.37	37	4. 29	35	25 34	2 12	♋ 29 23
20	30	17.27	22	22. 1	16	10.36	20	7. 7. 17	22.41	34	6. 34	39	♓ 7 48	3 10	28.54
21	31	17.30	22	22.14	16	11.16	19	8. 4. 40	23.46	31	8. 38	43	20.12	4 0	28.38
22	Au. 1	17.33	22	22.27	16	11.56	18	9. 2. 4	24.51	28	10.41	43	♈ 2. 48	4 39	28.43
23	2	17.36	22	22.40	16	12.36	17	9. 59.29	25.56	24	12 43	43	15.37	5 5	29. 0
24	3	17.39	22	22.53	16	13.16	17	10.56.56	27. 1	21	14.44	43	28 44	5 17	29 33
25	4	17.41	23	23. 6	16	13.55	16	11.54 23	28. 6	17	16.45	43	♉ 12. 9	D 5 11	♌ 0. 13
26 ☉	5	17.44	23	23.19	16	14.35	15	12.51.51	29.11	14	18.45	43	25 54	4 48	0. 54
27	6	17.46	23	23.32	17	15.14	14	13.49.20	♋ 0. 17	11	20.44	39	♊ 10. 1	4 6	1. 28
28	7	17.49	23	23.45	17	15.53	13	14.46.51	1. 23	7	22.41	36	24.30	3 8	1. 47
29	8	17.51	24	23.58	17	16.33	12	15.44.24	2. 29	4	24.36	33	♋ 9 13	1 57	1. 42
30	9	17.53	24	24.11	17	17.12	11	16 41.58	3. 35	0	26.28	30	24. 9	0 38	1. 14
31	10	17.55	24	24.24	17	17.51	10	17 [illegible]	4. 41	I· 57	28 [illegible]	[illegible]	[illegible]	[illegible]	26

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ oriét.	♂ oriét.	☉	♀ oriét.	☿ oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1							☽ Perig. (Amer.	11 *Iulij*
2 Viſit.M.	✶0.	☌4	✶21	☌7.12			Ecl. ☉ total. in (	12
3					✶7.		☽☋	13 Margar.
4	□1		□23.					14
5 *D 6.p.Tr.*					□11	✶11		15 *G 7.p.Tr.*
6	△3	✶7		✶17			SS♀☿	16
7			△6		△20	□23		17
8 Chilian.		□13.						8
9				□3.3				19
10	☍18					△18	✶♄☿16.	20
11 Pius		△0		△18			Q☉♄	21
12 *D 7.p.Tr.*			☍6.				☌♃☿8.	22 *G 8.p.Tr.*
13 Margar.					☍2.			23
14							SS ♄♀	24
15 Divil.Ap.	△19						(☽☋	25 Jacobus
16		☍3				☍20.	Q♄☿ ☽ Apog.	26 Anna
17			△15	☍5.55			Eclipſ.☽.	27
18	□7.				△15.			28
19 *D 8.p.T.*							SS ♃♀	29 *G 9.p.Tr.*
20	✶18.		□6				☌☉☿12	30
21		△4			□7.	occid		31
22 Mar.M.			✶18	△12.		△17.	✶♂☿22	1 *Auguſti*
23		□13			✶20.			2
24				□23.31				3
25 Jacob	☌9.	✶19.				□9.	□♄☿11.	4
26 *D 9.p.Tr.*								5 *G 10.p.Tr.*
27			☌9	✶6.		✶20.		6
28					☌12		SS ♃☿	7
29	✶14							8
30		☌0					☽ Per. ☽☊(✶☉♂14	9
31 German.	□14.		✶14.	☌14 40			SS♄♂ □☉♄6 (	[illegible] Laurent

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit
		♉	M A Z	♋	S A O	♊	M D O	♌	♋	M D I	♍	S D I	♌	S A	♋
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	17.57	24	24.37	17	18.30	9	18.37.11	5. 48	53	0. 7	24	24. 4	2 4	29.29
2 ☉	12	17.59	24	24.50	17	19. 9	8	19.34.49	6. 55	50	1. 56	18	♍ 8 47	3 13	28.39
3	13	18. 1	25	25. 3	17	19.48	7	20.32.28	8. 3	46	3. 43	13	23.10	4 9	28. 6
4	14	18. 3	25	25.15	17	20.27	6	21.30. 8	9. 10	42	5. 29	7	♎ 7. 10	4 48	27.55
5	15	18. 5	25	25.28	18	21. 6	5	22.27.49	10.18	38	7. 14	2 .0	20 42	5 9 D	28. 4
6	16	18. 7	25	25.41	18	21.45	4	23.25.31	11.26	35	8. 58	56	♏ 3 48	5 13	28.28
7	17	18. 9	26	25.53	18	22.23	3	24.23.14	12.34	31	10 41	49	16.28	5 2	29. 3
8	18	18.11	26	26. 6	18	23. 2	2	25.20.59	13.43	27	12.22	42	28 49	4 37	29 40
9 ☉	19	18.13	26	26.18	18	23.40	1	26.18.47	14.51	23	14. 1	35	♐ 10 53	4 0	♌ 0. 15
10	20	18.14	26	26.30	18	24.18	0 S.	27.16.36	16. 0	20	15.38	29	22 46	3 14	0. 42
11	21	18.15	26	26.43	18	24.56	1	28.14.26	17. 8	16	17.14	22	♑ 4. 34	2 18	0. 59
12	22	18.16	27	26.55	18	25.34	2	29 12.19	18.17	12	18.49	14	16.20	1 19	1. 1
13	23	18.17	27	27. 8	19	26.12	3	♍ 0. 10 14	19.25	8	20.23	6 M	28.10	0 14	0. 49
14	24	18.17	27	27.20	19	26.50	4	1. 8. 10	20 34	4	21.56	2	♒ 10 6	0 50	0 22
15	25	18.18	27	27.32	19	27.28	5	2 6. 8	21.42	1 0	23.27	9	22 12	1 54	29 43
16 ☉	26	18.18	28	27.44	19	28. 5	6	3. 4. 8	22.51	57	24.57	17	♓ 4 29	2 53	28 57
17	27	18.19	28	27.56	19	28.43	7	4. 2. 9	24. 0	53	26 26	26	16.59	3 45	28.11
18	28	18.19	28	28. 8	19	29.20	8	5. 0. 11	25. 9	49	27.53	34	29 42	4 27	27.34
19	29	18.19	28	28.20	19	29 57	9	5. 58.15	26.18	45	29.18	42	♈ 12 38	4 55	27.11
20	30	Retr. 18.19	28	28.32	19	♋ 0. 34	10	6, 56.20	27.27	42	♎ 0. 42	51	25 44	5 29 D	27. 1
21	31	18.19	29	28 43	20	1. 11	11	7. 54.27	28.37	38	2. 4	59 1	♉ 9. 3	5 6	27.18
22	Se. 1	18.19	29	28.55	20	1. 47	12	8. 52.36	29 47	34	3. 25	7	22.33	4 47	27.47
23 ☉	2	18.19	29	29. 6	20	2. 24	13	9. 50 47	♌ 0. 57	31	4. 44	16	♊ 6. 15	4 11	28.27
24	3	18.18	29	29.18	20	3. 1	14	10.49. 0	2. 7	27	6. 2	24	20.11	3 20	29.10
25	4	18.18	30	29.29	20	3. 37	15	11.47.15	3. 17	23	7. 19	33	♋ 4. 20	2 15	29 47
26	5	18.17	30	29.40	20	4. 13	16	12.45.31	4. 27	20	8. 35	41	18 42	1. 3 S	♌ 0 11
27	6	18.17	30	29.52	20	4. 49	17	13.43.50	5. 37	16	9. 49	49	♌ 3. 14	0 15	0 13
28	7	18 16	30	♌ 0. 3	20	5. 25	18	14.42.11	6. 47	13	11. 1	58 .2.	17.51	1 33	♋ 29 52
29	8	18.15	30	0. 14	21	6. 1	19	15.40.34	7. 58	9	12.11	6	♍ 2. 29	2 44	29.10
30 ☉	9	18.14	31	0. 25	21	6. 37	20	16.38.58	9. 9	5	13.19	14	17. 0	3 44	28.17
31	10	18.13	31	0. 36	21	7. 12	21	17.37.25	10.20	2	14.24	22	♎ 1. 16	4 28	27.25

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Orien.	♃ Oriét.	♂ oriét	☉	♀ Oriét.	☿ Occid.		
1 Vinc. P.					✱21	☌11	Q♂☿	11 *Augusti.*
2 *D 10. p. Tr.*	△15.		□18					12 *G 11. p. Tr*
3		✱3						13
4					□4		Td♄☿	14
5 Osvvald.		□9	△1	✱3.				15 Ass. Mar.
6 Sixtus					△16	✱11.		16
7	☍3	△18		□16,40				17
8							SS☉♃	18 Helena
9 *D 11. p. Tr.*						□7.		19 *G 12. p Tr.*
10 Laurent.			☍3	△10			✱♀☿19	20
11							✱♄♀21. △♄☿15.	21
12	△4	☍22			☍4.	△6	☽ Apog.	22
13							☽☋	23
14	□16							24 Barthol.
15 Ass. Mar.			△11	☍21.0			SS♃♂	25 Ludovic.
16 *D 12 p Tr*								26 *G 13 p. Tr.*
17	✱2.	△21	□23		△14.	☍20		27
18							✱♃☿5	28
19 Sebald.							□♂☿20 Td☉♄	29 Dec. Joa.
20		□5	✱9	△22	□3.			30
21	☌16.						☌♃♀2.	31
22		✱11			✱14	△21	Q♄♀	1 *Septemb.*
23 *D 13. p. Tr.*				□6.40				2 *G 14. p. Tr.*
24 Barthol.			☌23					3
25	✱23			✱13.		□5.	SS♂♀	4
26		☌18.					☽ Perig. ☽☊	5
27					☌4	✱12		6 Magnus
28 Augusti.	□1							7 Regina
29 Decol. J.			✱6	☌23.23			Q♃☿	8 Nat. Mar.
30 *D 14. p. Tr.*	△2	✱23						9 *G 15. p. Tr.*
			□10.		✱17		△☉♄14	10

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	♄ Lat M A Z	♃ Longit. ♌ G. M	♃ Lat S A O	♂ Longit. ♋ G. M.	♂ Lat S A O	☉ Longitude ♍ G. M. S.	♀ Longit ♌ G. M.	♀ Lat S A O	☿ Long. ♎ G. M.	☿ La. M A Z	☽ Longit. ♎ G. M.	☽ Latit. A G. M.	☊ Long. ♋ G. M.
1	11	18.11	31	0. 47	21	7. 48	22	18.35.54	11.31	2	15.27	30	15.14	4 56	26.4
2	12	18.10	31	0. 58	21	8. 23	23	19.34.25	12.42	5	16.29	37	28 47	5 6	26.24
3	13	18. 8	31	1. 9	21	8. 58	25	20.32.58	13.54	8	17.27	45	♏ 11.56	D 4 59	26.22
4	14	18. 7	32	1. 19	21	9. 33	26	21.31.33	15. 5	11	18.22	52	24.38	4 38	26.38
5	15	18. 5	22	1. 30	22	10. 8	27	22.30.10	16.17	15	19.14	59 3	♐ 7. 1	4 3	27. 5
6 ☾	16	18. 4	32	1. 41	22	10.43	28	23.28.49	17.28	18	20. 4	6	19. 5	3 19	27.35
7	17	18. 2	32	1. 51	22	11.17	30	24.27.30	18.40	21	20.51	11	♑ 0. 57	2 26	28.15
8	18	18. 0	32	2. 2	22	11.52	31	25.26.13	19.52	24	21.34	17	12.43	1 28	28.48
9	19	17 58	32	2. 12	22	12.26	32	26.24.58	21. 4	27	22.12	22	24 28	0 27	29.13
10	20	17.56	33	2. 22	22	13. 0	34	27.23.45	22.16	31	22.45	27	♒ 6. 18	M 0 37	29.2
11	21	17 54	33	2. 32	22	13.34	35	28.22.33	23.28	34	23.13	32	18.18	1 39	29.25
12	22	17.52	33	2. 42	23	14. 8	36	29.21.24	24.40	36	23.36	34	♓ 0 30	2 37	29.
13 ☉	23	17.50	33	2 52	23	14.41	37	♎ 0. 20 18	25.52	39	23.54	36	12.59	3 31	28.5
14	24	17.47	33	3. 2	23	15.14	39	1. 19.14	27. 4	42	24. 7	38	25.46	4 13	27.
15	25	17.45	33	3. 12	23	15.47	40	2. 18.12	28.16	44	24.16 Retr.	40 D	♈ 8. 50	4 44	27.
16	26	17 43	34	3. 21	23	16.20	41	3. 17.13	29 28	47	24.16	41	22. 9	4 59	26.18
17	27	17.40	34	3. 30	23	16.53	42	4. 16.15	♍ 0. 40	50	24. 9	38	♉ 5. 41	4 58	25.4
18	28	17.37	34	3. 39	24	17.26	44	5. 15.19	1. 52	52	23.54	33	19 22	4 42	25.3
19	29	17.34	34	3. 48	24	17.58	45	6. 14.25	3. 5	55	23.31	29	♊ 3. 6	4 8	25 38
20 ☉	30	17.31	34	3. 57	24	18.31	46	7. 13.33	4. 18	58	23. 1	25	17. 3	3 18	26. 3
21	1 Oc.	17.28	34	4. 6	24	19. 3	47	8. 12.43	5. 31	-1- 0	22.25	21	♋ 0 59	2 19	26.42
22	2	17.25	35	4. 15	24	19.35	49	9. 11.55	6. 44	2	21.41	8 2	14.59	1 8	27 2
23	3	17.21	35	4. 24	24	20. 6	50	10.11.10	7. 57	4	20.50	55	29. 4	S 0 5	28.
24	4	17.18	35	4. 32	25	20.38	51	11.10.28	9. 10	6	19.52	42	♌ 13 13	1 18	28.35
25	5	17.14	35	4. 40	25	21. 9	53	12.9. 49	10.23	8	18.47	29	27.24	2 28	28.41
26	6	17.11	35	4. 49	25	21.40	54	13.9. 12	11.36	10	17 40	17 ·1·	♍ 11.35	3 26	28.2
27 ☽	7	17. 7	36	4. 57	25	22.11	55	14.8. 36	12.49	12	16.26	57	25 42	4 13	27.54
28	8	17. 3	36	5. 6	25	22.41	56	15.8. 2	14. 2	14	15. 7	37	♎ 9. 39	4 44	27.
29	9	16.59	36	5. 14	25	23.12	58	16.7. 31	15.15	16	13.55	18 O	23.23	4 58 D	26.16
30	10	16.55	36	5. 22	25	23.42	59	17.7. 3	16.28	18	12.46	58	♏ 6 48	4 55	25.5

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ oriét.	♂ Oriét.	☉	♀ Oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Ægidius						☌0.		11 *Septemb.*
2 Veronica		□4	△18				☿ Peregrè à ☉	12
3	☍12			✱17.	□4		Vc. ♄☿	13
4		△13					Q☉♂	14 Exalt. ✠
5					△20.			15
6 *D 15 p. Tr.*				□9.42		✱2	□♄♀ 11.	16 *G. 6. p. Tr*
7 Regina			☍22					17 Lambert.
8 Nat. M.	△11					□19		18
9		☍16		△4.			☽ Apog. ☽☋	19
10	□23						✱♀☿17	20
11					☍11	△10		21 Matthæus
12								22 Mauritius
13 *D16. p. Tr.*	✱9		△3					23 *G17 p. Tr.*
14 Exalt. ✠		△13.		☍11.1				24
15			□13					25
16		□20			△14	☍4	✱☉♃2	26
17 Lampert.	☌21		✱20.					27 Cosm. Da.
18							✱♄♂7.	28 Wencesl.
19		✱1		△6	□0		SS ♃♀	29 Michaelis
20 *D17 p. Tr.*						△10	Td ♄♀	30 *G18 p. Tr.*
21 Matthæus				□3.20	✱8.			1 *Octob.*
22 Mauritius	✱4		☌8			□11	☽Perig. ☽☊	2
23		☌9		✱20			□♂☿12	3
24	□7					✱10.	Bq☉♄	4 Francisc.
25								5
26	△9.		✱18		☌0		Vc. ♄☿	6
27 *D 18. p. Tr.*		✱16						7 *G 19. p. Tr*
28 Wencesl.			□23.	☌10.20		☌9	☌☉☿0 SS♀☿	8
29 Michael		□21.				Oriét.	Vc. ☉♄	9 Dionysius
30 Hieron.	☍18.				✱19		△♄♀8 Q☉♃	10

Stylo Veteri	Stylo Novo	♄ Longit. ♉ G. M.	Lat. M A Z	♃ Longit. ♌ G. M.	Lat. S A O	♂ Longit. ♋ G. M.	Lat. S A I	☉ Longitudo ♎ G. M. S	♀ Longit. ♍ G. M.	Lat. S A I	☿ Longit. ♎ G. M.	Lat. M D O	☽ Longit. ♏ G. M.	Latit. S D G. M.	☊ Long. ♋ G. M.
1	11	16.51	36	5. 30	26	24.12	0	18.6. 37	17.42	20	11 42	38	19 51	4 35	25. 0
2	12	16.47	36	5. 38	26	24.41	2	19.6. 12	18.55	22	10.53	20	♐ 2. 33	4 2	24.47
3	13	16.43	36	5. 46	26	25.10	4	20.5. 49	20. 9	23	10.11	2 S	14.55	3 20	24.51
4 ☉	14	16.39	36	5. 53	26	25.39	5	21.5. 28	21.23	24	9. 36	16	27. 0	2 29	25. 5
5	15	16.35	36	6. 0	26	26. 8	7	22.5. 9	22.36	25	9. 8	34	♑ 8 52	1 32	25.36
6	16	16.31	36	6. 7	27	26.37	9	23.4. 53	23.50	27	8. 46	52	20.37	0 31	26.11
7	17	16.27	36	6. 14	27	27. 5	10	24.4. 39	25. 4	28	8. 36 Dir.	1. 3	♒ 2. 22	M 0 30	26.47
8	18	16.23	36	6. 21	27	27.33	12	25.4. 27	26.18	29	8. 35	15	14.11	1 31	27.18
9	19	16.18	36	6. 27	27	28. 1	14	26.4. 17	27.32	30	8. 52	27	26 11	2 28	27.42
10	20	16.14	36	6. 34	27	28.29	15	27.4. 9	28.46	32	9. 20	38	♓ 8. 27	3 20	27.53
11 ☉	21	16.10	36	6. 40	28	28.56	17	28.4. 2	♎ 0. 0	33	9. 59	50	21. 3	4 2	27.47
12	22	16. 5	36	6. 46	28	29.23	19	29.3. 58	1. 14	33	10.48	53	♈ 4 0	4 36	27.25
13	23	16. 1	36	6. 52	28	29 50	20	♏ 0 3. 57	2. 28	34	11.47	57 Z	17 20	4 55 D	26.4[illegible]
14	24	15.56	36	6. 58	28	♌ 0 17	22	1. 3. 59	3. 42	34	12.49	0	♉ 1. 1	4 57	25.5[illegible]
15	25	15.51	36	. 3	28	0. 44	24	2 4. 3	4. 56	35	13.55	4	14 56	4 41	25.[illegible]
16	26	15.47	37	7. 9	28	1. 10	25	3. 4. 8	6. 10	35	15. 4	7	29 7	4 9	24.2[illegible]
17	27	15.42	37	7. 14	29	1. 36	27	4. 4. 14	7. 24	36	16.19	6	♊ 13 22	3 20	24. 1
18 ☉	28	15 37	37	7. 19	29	2. 2	29	5. 4. 24	8. 38	36	17.40	4	27.37	2 18	24.[illegible]
19	29	15.32	37	7. 24	29	2. 27	30	6. 4. 35	9. 53	37	19. 4	2	♋ 11.50	1 9 S	24.21
20	30	15.27	37	7. 29	29	2. 52	32	7. 4. 48	11. 8	37	20.31	1	25 57	0 5	24.57
21	31	15.22	37	7. 34	29	3. 17	34	8. 5. 3	12.23	38	22. 0	1 59	♌ 9. 59	1 17	25.43
22	N. 1	15 17	37	7. 38	30	3. 41	35	9. 5. 20	13.37	38	23.31	55	23 55	2 26	26.2[illegible]
23	2	15.12	37	7. 43	30	4. 5	37	10.5. 39	14.52	37	25. 3	50	♍ 7. 46	3 25	26.52
24	3	15. 7	37	7. 47	30	4. 29	39	11.6. 0	16. 7	37	26 36	46	21 32	4 12	27. 8
25 ☉	4	15. 2	37	7. 51	30	4. 52	41	12.6. 23	17.21	37	28.10	41	♎ 5. 12	4 43	27. 3
26	5	14.57	37	7. 55	30	5. 15	42	13.6. 47	18.36	36	29 45	36	18.43	4 59	26.3[illegible]
27	6	14.52	37	7. 58	31	5. 37	44	14.7. 13	19.50	36	♏ 1. 20	30	♏ 2. 3	4 57	25.58
28	7	14.47	37	8. 2	31	5. 59	46	15.7. 41	21. 5	35	2. 56	24	15.10	4 41	25.11
29	8	14.42	37	8. 5	31	6. 21	47	16.8. 11	22.20	35	4. 32	18	28. 0	4 9	24.24
30	9	14.37	37	8. 8	31	6. 43	49	17.8. 43	23 34	35	6. 9	12	♐ 10 34	3 26	23.46
31	10	14 32	37	8. 11	31	7. 4	51	18.9. 16	24.49	35	7. 46	6	22.51	2 36	23.22

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ oriēt.	♂ Oriēt.	☉	♀ Oriēt.	☿ orien	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1			△ 8.					11 *Octob.*
2		△6				⚹15.	SS ☉♀	12
3				⚹11	□11.			13
4 *D 9.p.Tr.*								14 *G 20.p.Tr*
5	△ 15.					□ 0.	☽ Apog.	15 Hedvvig
6 Fides			☍13	□5.31	△ 7.		☽☋	16 Gallus
7		☍8				△12.		17
8	□4							18 Lucas
9 Dionys.				△0			⚹♂♀16 Q♄♂	19
10	⚹15							20
11 *D 20.p.Tr.*			△15		☍18		Bq♄☿	21 *G 21.p.Tr.*
12		△5				☍13	□☉♂14	22
13			□22.				☿ elong. max.	23
14		□10		☍0.6				24
15 Hedvvig	☌1.							25 Crispinus
16 Gallus		⚹13.	⚹5.		△4		Vc.♄☿ ⚹♃♀20.	26 Amandus
17						△5.		27
18 *D 21 p.Tr.*				△ 13.	□20.		Bq ♄♀	28 *G 22.p.Tr.*
19	⚹ 6					□ 13.	☽Perig ☽☊	29
20		☌19.	☌12	□20.30			□☉♃10.	30
21 Ursula	□9				⚹4.	⚹23		31 Wolffgang.
22								1 *Nov.*
23	△13			⚹4.			Vc. ♄♀	2 O. animar.
24			⚹23				Q♂♀	3
25 *D 22.p.Tr*		⚹5						4 *G 23.p.Tr*
26					☌0	☌22.		5
27	☍23	□11	□7	☌23.56			☍☉♄16. Q♃♀	6 Leonhard.
28 Sim. Jud.	occid							7
29		□19.	△16.					8
30							□♂☿11	9 Theodor
31 Wolffg.					⚹4		□♃☿6.	10

Styl. Veteri	Stylo Novo	♄		♃		♂		☉	♀		☿		☽		☊
		Longit	Lat	Longit.	Lat	Longit.	Lat	Longitude	Longit	Lat	Longit.	La.	Longit.	Latit.	Long
		♉	M D Z	♌	S A O	♌	S A I	♏	♎	S D I	♏	S D I	♑	S D	♋
		G. M		G. M		G. M.		G. M. S.	G. M.		G. M.		G. M	G. M.	G. M
1 ☉	11	14.27	37	8. 14	31	7. 25	52	19.9. 50	26. 3	35	9. 23	0	4. 54	1 37	23.12
2	12	14.22	37	8. 17	32	7. 45	55	20.10.28	27.17	34	11. 0	53	16.46	0 36	23.19
3	13	14.17	37	8. 19	32	8. 4	57	21.11. 8	28.32	32	12.37	46	28.32	M 0 26	23.3
4	14	14.12	36	8. 21	32	8. 23	59	22.11.50	29 47	31	14.14	39	♒ 10.17	1 28	24.
5	15	14. 7	36	8. 23	33	8. 41	Z 1	23.12.33	♏ 1. 2	30	15.50	33	22. 6	2 26	24.11
6	16	14. 2	36	8. 24	33	8. 59	4	24.13.17	2. 17	29	17.26	26	♓ 4. 5	3 18	25.1
7	17	13.57	36	8. 26	33	9. 16	6	25.14. 1	3. 32	28	19. 2	19	16.21	4 2	25.45
8 ☉	18	13.52	36	8. 27	34	9. 33	8	26.14.47	4. 47	27	20.38	12	28.56	4 37	26.11
9	19	13.47	36	8. 29	34	9. 49	11	27.15.34	6. 2	26	22.14	6	♈ 11.57	4 58	26.18
10	20	13 43	35	8. 30	34	10. 5	13	28.16.23	7. 17	25	23.50	1	25.23	5 4	26. 8
11	21	13.38	35	8. 31	35	10.21	15	29.17.13	8. 33	24	25.25	M 8	♉ 9. 15	D 4 52	25.3
12	22	13.34	35	8. 31	35	10.36	17	♐ 0. 18. 5	9. 48	23	27. 0	14	23 29	4 22	24.45
13	23	13. 29	35	8 32 Retr	35	10.51	20	1. 19. 0	11. 3	21	28.35	21	♊ 8. 0	3 35	23.5
14	24	13 24	35	8. 32	36	11. 5	22	2. 19.57	12.18	20	♐ 0 10	27	22.40	2 33	23.
15 ☉	25	13.20	35	8. 31	36	11.18	24	3. 20.56	13.33	18	1. 45	34	♋ 7. 23	1 20	22.
16	26	13.15	34	8. 31	36	11.31	27	4. 21.56	14.48	16	3. 19	40	22. 1	0 3	22.
17	27	13.11	34	8. 30	36	11.45	29	5. 22.56	16. 3	15	4. 54	46	♌ 6. 29	S 1 11	22.5
18	28	13. 7	34	8. 29	37	11.56	31	6. 23.57	17.19	13	6. 28	52	20.44	2 18	23.1
19	29	13. 2	34	8. 28	37	12. 7	33	7. 24 59	18.34	12	8. 2	58	♍ 4. 44	3 19	23.51
20	30	12 58	34	8. 26	37	12.17	36	8. 26. 1	19.50	10	9. 36	1 4	18.30	4 10	24.3
21	De. 1	12.54	34	8. 25	38	12.26	38	9. 27. 4	21. 5	8	11.11	9	♎ 2. 1	4 45	25. 8
22 ☉	2	12.50	34	8. 23	38	12.35	40	10.28. 8	22.20	6	12.45	14	15.20	5 9	25.30
23	3	12.46	33	8. 22	38	12.43	43	11.29.14	23.35	4	14.19	19	28 28	D 5 17	25.34
24	4	12 42	33	8. 20	39	12.51	45	12.30.22	24.50	2	15.53	24	♏ 11.24	5 5	25.20
25	5	12.38	33	8. 18	39	12.58	47	13.31.32	26. 6	0	17.27	29	24. 8	4 37	24.59
26	6	12.34	33	8. 16	39	13. 4	49	14.32.43	27.21	58	19. 1	34	♐ 6 40	3 52	24. 9
27	7	12.31	33	8. 13	40	13.10	52	15.33.54	28.36	56	20.35	38	18 59	2 56	23.23
28	8	12.27	33	8. 10	40	13.15	54	16.35. 5	29.51	54	22. 9	42	♑ 1. 8	1 54	22.40
29 ☉	9	12.24	32	8. 7	40	13.19	56	17.36.16	♐ 1. 7	52	23.44	47	13. 6	0 48	22. 5
30	10	12.21	32	8. 4	40	13.22	59	18.37.28	2. 22	50	25.19	51	24.58	M 0 16	21 45

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriét.	♂ oriét.	☉	♀ oriét.	☿ oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *D 23. Tr.* 2 Animar.	△ 9			✱ 7.		✱ 10.	☽ Apog. ☽☋	11 *Nov.* G. 12
3 4	□ 8	☍ 20	☍ 20		□ 0	□ 9	☍♄☿13 ☌♃♂21	13 14
5 6 Leonh.	✱ 19			□ 2.26	△ 20			15 Leopold. 16
7 8 *D 24. Tr.*		△ 17.	△ 20	△ 18.		△ 6	Td☉♃	17 18 *G 25. Tr.*
9 Theodor. 10		□ 23			☍ 23		Td☉♂ □♃♀ 13.	19 Elisab. 20
11 Martinus 12	☌ 7.		□ 2	☍ 12.7		☍ 6.	Td ♃☿ □♂♀ 19	21 Obl.M. 22 Cæcilia
13 14 Frider.		✱ 1	✱ 5				Td♂☿ ☍♄♀ 20	23 Clemens 24
15 *D 25. Tr.* 16	✱ 9.			△ 22	△ 11	△ 21	☽ Perig. ☽☊	25 *G 26. Tr.* 26
17 18	□ 11	☌ 3.	☌ 9		□ 18	occid	☌☉☿ 21	27 28
19 Elisab. 20	△ 14.			□ 5.3	✱ 2.	□ 6.	△♃☿ 6. △☉♃ 0	29 30 Andreas
21 Obl.M. 22 *D 26. Tr.*		✱ 11.	✱ 19	✱ 14.		✱ 19	△♂☿ 21 Vc. ♄☿	1 *Dec.* 2 *G 1. Adv.*
23 24	☍ 2.	□ 18.	□ 2.				□♄♂ 6 Vc. ☉♄ △☉♂ 9	3 4 Barbara
25 Cathar. 26 Conrad.		△ 3	△ 12.	☌ 16 44	☌ 4		Td♃♀ Bq♄☿	5 6 Nicolaus
27 28	△ 22.					☌ 3.		7 8 Conc. M.
29 *D 1. Adv.* 30 Andreas					✱ 1		☽ Apog ☽☋. (Bq☉♄ Td♂♀	9 *G. 2. Adv.* 10

Styl. Veteri	Stylo Novo	♄ Longit ♉ G. M.	♄ Lat M D Z	♃ Longit ♌ G. M.	♃ Lat S A O	♂ Longit. ♌ G. M.	♂ Lat S A -3-	☉ Longitudo ♐ G. M. S.	♀ Longit ♐ G. M.	♀ Lat S D O	☿ Longit. ♐ G. M.	☿ La. M A I	☽ Longit. ♒ G. M.	☽ Latit. M A G. M.	☊ Long. ♋ G. M.
1	11	12.17	32	8. 1	41	13.24	1	19.38.41	3. 38	48	26.54	55	6. 44	1 20	21.3[illegible]
2	12	12.13	32	7. 57	41	13.25	3	20.39.55	4. 54	46	28 29 ♑	57	18 30 ♓	2 20	21.4[illegible]
3	13	12.10	32	7. 53	41	13 26 Retr	6	21.41.10	6. 9	43	0. 4	2 0	0 21	[illegible] 14	22.[illegible]
4	14	12. 7	31	7. 49	41	13.26	8	22.42.26	7. 24	41	1. 39	2	12.20	4 2	22.3[illegible]
5	15	12. 4	31	7. 45	41	13.25	10	23.43.43	8. 40	39	3. 14	5	24 34 ♈	4 38	23.1
6	☾16	12. 1	31	7. 40	41	13.23	13	24.45. 0	9. 55	36	4. 47	8	7. 7	5 3	23.[illegible]
7	17	11.58	31	7. 36	41	13.21	15	25.46.17	11.11	34	6. 22	8	20 3 ♉	5. 13 D	24.[illegible]
8	18	11.55	30	7. 31	42	13.18	17	26.47.34	12.26	32	7. 57	9	3. 26	5 7	24.[illegible]
9	19	11 52	30	7. 26	42	13.14	20	27.48.51	13.42	29	9. 32	10	17 17 ♊	4 43	24.4
10	20	11.50	30	7. 21	42	13. 9	22	28.50. 9	14.57	27	11. 7	11	1 33	4 1	24.2[illegible]
11	21	11 47	30	7. 16	42	13. 3	25	29.51.27 ♑	16.13	25	12.41	D 11	16 12 ♋	3 3	23.4
12	22	11.4	29	7. 11	42	12.57	27	0. 52.46	17.28	22	14.15	10	1 7	1 51	22.[illegible]
13	☉23	11 42	29	7. 5	42	12.50	29	1. 54. 5	18.44	20	15.49	8	16 9 ♌	0 30 S	[illegible]
14	24	11.4	29	7. 0	42	12.42	32	2. 55.25	19.59	17	17.22	6	1. 11	0 52	2[illegible]
15	25	11.38	29	6. 54	42	12.33	34	3. 56 45	21.14	15	18 55	4	16 3 ♍	2 10	[illegible]
16	26	11.36	28	6. 48	42	12.23	36	4. 58. 5	22.30	12	20 28	3 1	0. 44	3 20	[illegible]
17	27	11.34	28	6. 42	42	12.12	39	5. 59.25	23 45	10	22. 2	58	14.56	4 13	[illegible]
18	28	11.33	28	6 36	43	12. 1	41	7. 0. 45	25. 1	7	23.33	55	28 50 ♎	4 53	22
19	29	11.31	28	6. 30	43	11.49	43	8. 2. 5	26.16	5	25. 1	48	12 22	5 12 D	22.[illegible]
20	30	11.30	27	6. 24	43	11.36	46	9. 3. 25	27.32	2	26.26	43	25 34 ♏	5 16	23.[illegible]
21	31	11 29	27	6 17	43	11.22	48	10.4. 44	28 48 ♑	0 M	27.49	38	8. 28	5 4	23.[illegible]
22	Ian. 1	11 28	27	6. 11	43	11. 7	50	11 6. 3	0 3	2	29. 9 ♒	29	21. 6 ♐	4 41	24.[illegible]
23	2	11 27	27	6. 4	43	10.52	53	12.7. 22	1. 19	5	0. 28	20	3 32	3 56	23.[illegible]
24	3	11.26	26	5. 58	43	10.36	55	13.8. 41	2. 34	7	1. 45	11	15.46	3 6	23.[illegible]
25	4	11.25	26	5. 51	43	10 19	58	14.9. 59	3. 49	10	3. 0	2 0	27 51 ♑	2 9	23.[illegible]
26	5	11.24	26	5. 44	43	10. 1	4 0	15.11.17	5. 5	12	4. 13	53	9 49	1 6	22.[illegible]
27☾	6	11.23	26	5. 37	44	9. 43	2	16.12.35	6. 21	14	5. 10	39	21 41 ♒	0 0 M	21.[illegible]
28	7	11.23	25	5. 30	44	9. 24	5	17.13.53	7. 36	17	6. 2	24	3 33	1. 5	[illegible]
29	8	11.22	25	5. 23	44	9. 5	7	18.15.11	8. 51	19	6. 48	10	15.19	2 7	20.[illegible]
30	9	11.22	25	5. 16	44	8. 45	9	19.16.28	10. 7	21	7. 31	4 S.	27.11 ♓	3 3	20.[illegible]
31	10	11.21	25	5. 8	44	8. 25	12	20.17 44	11.23	24	8. 11	18	9. 6	3 52	[illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Occid.	♃ Oriét.	♂ oriét	☉	♀ Oriét.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1	□ 11	☍ 1	☍ 13					11 *Decemb.*
2				✱ 5		✱ 23.		12
3	✱ 23.				□ 13			13 Lucia
4 Barbar.				□ 22.7			△♃♀7 Bq♃☿	14
5						□ 19.		15
6 *D 2. Adv.*		△ 1	△ 11.		△ 6			16 *G 3. Adv.*
7				△ 11			Vc.♄♀.Vc.♃☿.(	17 Lazarus
8 Conc.M.	☌ 4.	□ 7	□ 17			△ 9	△♂♀15. (Bq♂☿	18
9 Joachim.								19
10		✱ 9.	✱ 19				△♄☿ 10.	20
11				☍ 6.18	☍ 0		Vc.♂☿	21 Thomas
12	✱ 17					☍ 23.	Bq ♄♀ Bq☉♃	22
13 *D 3. adv.*							☽ Perig. ☽☊	23 *G 4. Adv.*
14	□ 17	☌ 9	☌ 18.					24
15					△ 9			25 Nat.D.
16	△ 18			△ 8				26 Stephan.
17 Lazarus					□ 17	△ 14	Vc.☉♃ Bq☉♂	27 Jo. Evan.
18		✱ 14	✱ 23	□ 15.41				28 Innocen.
19								29
20 *D 4. Adv.*		□ .0			✱ 4	□ 2	□♄♂ 11	30 *G.*
21 Thomas	☍ 6		□ 5.	✱ 3.				31 Sylvest.
22						✱ 17.	△☉♄8.vc.☉♂(	1 *Ian.* 1647
23		△ 5	△ 14				(Bq ♃♀	2
24								3
25 Nat.D.					☌ 13		Bq♂♀ (Eclip.☉	4
26 Stephan.	△ 3			☌ 11.56			☿lon.à☉ vc.♃☿	5 Simeon
27 *D Io.Ev*							☍♃☿11 ☽ap.☽☋	6 *F.Epiph.*
28 Innoc.	□ 16	☍ 4	☍ 11.			☌ 5.		7
29							Vc.♂♀	8
30 David							△♄♀ 23.	9
31 Sylvester					✱ 5		☍♂☿ 6	10 Paul.Er.

Radices Mediorum motuum Planetarum ad Uraniburgicum Meridianum, & meridiem Cal Jan. Anni Jul. 1646. directæ, ex Tabularum Rudolphinarum legibus & Tychonis Brahei observationibus.

	S.	°	′	″
Præcessio Æquinoctiorum à prima ♈ stella	0	28	42	3
Longitudo media ☉ ab Æquinoctio verno	9	21	1	0
Apogæum Solis	3	6	30	21
Longitudo ☽ media ab Æquinoctio Verno	7	17	26	5
Apogæum Lunæ	8	20	50	30
Nodus Lunæ	2	12	12	37
Longitudo media ♄ ab Æquinoctio Verno	1	9	0	22
Aphelium Saturni	8	26	54	21
Nodus Boreus Saturni	3	21	53	34
Longitudo ♃ media ab Æquinoctio Verno	2	27	3	37
Aphelium Jovis	6	7	27	24
Nodus Boreus Jovis	3	5	28	36
Longitudo ♂ media ab Æquinoctio Verno	9	10	32	0
Aphelium Martis	4	29	50	7
Nodus Boreus Martis	1	17	14	21
Motus medius Longitudinis ♀	1	15	42	45
Aphelium ♀	10	2	12	54
Nodus Boreus Veneris	2	13	36	0
Motus medius Longitudinis ☿	0	9	14	31
Aphelium Mercurij	8	14	8	25
Nodus Boreus Mercurij	1	13	29	18

FINIS

Ephemeridis Anni Christi 1646.

EPHEMERIS
MOTUUM COELESTIUM AD ANNUM
Incarnationis VERBI juxta æram Dionyſianam, ſed quam Eccleſia Occidentis hodiè orditur

A NATIVITATE JESU CHRISTI,
Domini & Servatoris noſtri

M. DC. XLVII.

Numerant autem ad hunc annum

Orientis & Græcæ Eccleſiæ Chriſtiani, à Conditu rerum	7155.
Judæi, Hebræi & Rabini recentiores, à conditu rerum	5407.
Abyſſini & Ægyptij Chriſtiani, ab æra Dioclet. ſeu Martyrum	1363.
Sarraceni ac Turcæ, ab Hegira ſeu fuga Muhammedis	1056.
Aſtronomi, à Nabonaſſaro annos Ægyptiacos 365 dierum	2395.
Ab obitu Alexandri Magni	1970.

Eſtq; annus tertius à Biſextili, & ordinationis Julianæ 1691, Emendationis Gregorianæ 65, cujus character eſt Periodus Scaligerana 6360.

Ex quo prodeunt

Numerus Cycli Solis	4	Aureus Numerus ſeu	
Indictio Romana	15	Cycli ☾ Numer.	14
Ut & in Juliano.		*In Gregoriano.*	
Litera Dominicalis	C.	Litera Dominicalis	F.
Intervallum Hebd. 9. dier.	2.	Intervallum 9 Hebd. 5 dier.	

Hoc anno introitus Solis in quatuor puncta ſignorum Cardinalium ad Meridianum Vraniburgicum & tempus Aſtronomicum apparens & Iulianum Stylum ita ſeſe habet.

♈ Die X Martij H. 3. M. 35.	♎ Die XII. Septemb. H. 21. M. 31.
♋ Die XI Junij H. 6. M. 53.	♑ Die XI. Decemb. H. 9. M. 8.

Bis hoc anno Sol deficiet, semel autem Luna: Solis Eclipses intra nostrum Horizontem, sic ut neutra earum nobis conspicua sit futura, accident. Describam tamen etiam eas, prout nostræ Tabb. Eclipsigraphicæ utramq; exhibent. Quod igitur primùm ☽æ defectionem attinet, est illa velut appendix quædam obscurationis Claris magnæ, quæ contigit præcedente anno & interlunio 1646. d. 26. Decembris. Initio itaq; epilogismum & schema partialis huius Eclipsis subjiciam: postmodum etiam exercitij caussâ calculum ☉larium Eclipsium attexam.

I. Calculus Eclipsis ☽æ nobis conspicuæ.

	Sexa 6. dies	Grad ò. hor.	/	//
Media ☍ Luminar. accidet p.m.	10 Ia.	8	23	11
Interval. int. med. & ver syzyg. addend.		1	55	4
Tempus apparens vera ☍	10 Ia.	10	9	29
Æquatio Æquinoct. add.			9	56
Anomalia ☉	3	23	32	55
Anom. ☽ coæquata	2	58	20	15
Argum. Latitud. ☽	0	9	41	13
Latitudo ☽ S. A.			51	30
Longitudo ☉ vera	5	0	56	4
☽ vera	2	0	56	4
Semidiam. ☽ corr.			[illegible]	40
Penumbra terræ limitata			46	33
Aggreg. SSdd.			66	13

	Sexag 6. dies	Grad. 6. hor.	/	//
Pars deficiens			15	43
Digiti Ecliptici		4 D	47	42
Scrupula casus			42	43
Quæ divisa per motũ horar. ☽			33	21
Dant tempus incidentiæ		1	16	51
Ut tota duratio sit		2	33	42
Latitudo ☽ ad Eclips. Init.		S. A.	46	34
Latitudo ☽ ad Eclips. finem		S. A.	54	17
Initium Ecl. in Merid. Uraniburg p.m.		8	52	38
Medium seu vera ☍		10	9	29
Finis tempore apparente		11	6	10

Itaq; si aura fuerit defæcata, hæc Eclipsis nobis Europæis ab initio ad finem usq; erit conspicua. Qui verò sunt Uranib. per 1 hor. 50/31//. Orientaliores, sub Longitudine locorũ 64 gr. 23/. hanc Eclipsin Lunæ in Meridiano notabũt. E. g. in Nubia regione Africæ, in Phacusa Metropoli Arabiæ, in Insulis Creta & Cypro, in Idumea ac Syria, in sinu Arabico, ad Histriani fl. Ostia, & Vologda Russiæ, ut & finibus Moscoviæ, & extrema parte Litvaniæ.



II. Calculus Eclipsis ☉ nobis inconspicuæ.

Media Luminar. ☌ accidet Uraniburgi d. 21 Jun. 18 hor. 25/38/. à meridie. Intervallum inter med. & veram ☌ add. est 5 hor. 50/32//. Tempus apparens veræ ☌ respectu Uranib. fit d. 22 Iunij, fer. 3. 0 hor. 11/33//. à merid Æquatio æquinoct. add. 9/57//. Anom. ☉ 0 Sex. 3 gr 47/22//. Anom. ☽ coæqu. 2 Sex. 19 gr 30/27//. Argum. Latit. ☽ 5 Sex 57 gr. 35/59//. Latitudo ☽ vera A D. 12/33//. Loca Luminar. inveniuntur in 10 gr. 12/26 ♋.

Nobis a. nequit esse Ecliptica, ob Parallaxin ☽æ nimis in Austrum excurrentem: Illis autem total ☉ obscurabitur, qui subjacent Longitudini loci 32 gr. 39/45//. & Latitud. Septent 11 gr. qualia sunt loca in Guinea Africæ, & quæ adjacent fluvio Nigro, ut & in regione Mandinga & Gagor, à quib nec Zeczeg procul removetur: siquidem istic locor. vera ac visa ☌ Luminar. in 90 Eclipticæ per 3/48// ante meridiem, seu hora 11 min. 55 sec. 12 antemerid. præcisè concurret. Hæc loca sunt per 16/21// temporis uranibur. Occidentaliora. Namq; illic ad præfatum tempus ex tribus datis, utpote primò complem Declin. ☉ 66 gr. 51/40//. Secundò ex distantia polor. & Horizontis 79 gr & tertiò ex distantia Luminar. à meridiano 0 gr. 57/. elicitur altitudo Luminar 77 gr. 49/50.// Parall ☉ 0 38 / Parall. ☽ 13/21// ☽æ à ☉ in Austrum tendens 11/34// Visa Latit. ☽ Sept. 0/10//. Sd ☉ 15/0//. Sd ☽ 17/2//. Aggreg SSdd. 32/2//. Pars deficiens 31/52//. Proinde hæc ☌ Luminar erit centralis & ideo obscur. ☉ totalis. Prodeunt n. Digiti Eclyptici 11 min. 14/sec. 48 Ad cognosc tempus durationis requiritur parallax Longitud. ☽ ad unam hor. ☌ veræ retrò, quæ colligitur 14/49// ex hisce δεδομένοις: complem. Decl. ☽ 67 gr. 6/ distant Horiz. & pol 79 gr. distan. ☽ à M C. 15 gr 23/. Altitud ☽, quæ & ☉ cõpetit 71 gr. 6/10//. Parall. ☉ 0/59//. Parall. ☽ 0/29//. ☽æ à ☉ 19/30//. distantia ☽ ab Horoscopo 75 gr. 15/ & Angulo Eclipticæ c. Verticali 40 gr. 32/5//. Datur etiam motus horar. ☽ verus 32/52//. visus 18/3//. Scrupula casus 32/2//. Hinc innotescit temp. Incidentiæ 1 hor. 46 29 //. & totius durat. 3 hor. 32/58//. Digna profectò Eclipsis fideli observatione, utpote ex qua & longitud. locorum, & Luminar. loca æstimari poterunt.

III. Eclipsis ☉ calculus, quæ nec in Horizonte nostro apparebit.

Tempus mediæ ☌ Uraniburgi accidet d 15 Decemb. 22 hor. 49/57// p. m Intervall. inter med. ac verã Syzyg. subtrah est 9 h. 18/59//. Temp. apparens veræ ☌ fit d. 15 Dec. 13 h. 29/25//. Æquatio æquin add. 9/58//. Anomal ☉ 2 Sex 57 gr. 47/55//. Anomalia ☽ coæq 4 Sex 55 gr. 54/6//. Arg Lat ☽ 3 Sex. 1 gr. 0/47//. Vera Latitudo ☽ AA 5/18//. Loca luminar reperiuntur in 4 gr. 16/29// ♑. Nobis a. ☉ obscurari nequit, cùm eo tempore adhuc infra Horizont. lateat: iis verò total. propemodum obscurabitur, qui habitant in Longitud. terræ 194 gr 30/ & Latitud A 28 gr ut sunt incolæ novæ Guineæ & tractus terræ Austral nobis adhuc incogniti. Nam iis ☌ vera ac visa Luminar in 90 Eclipticæ gradu præcisè coincidet in merid. 12 hor. 0/36// suntq; Uraniburgo Orientaliores 10 hor. 31 11 //. Quippe datur ibidem ad præfat. tempus distantia polor. ac Horizontis 6 gr Complem. Decl. ☉ 66 gr 32/10//. Distantia ☉ à M 0 gr. 9/ & hinc Altitudo Luminar. 85 gr. 27/50//. Proinde etiam Parall ☉ 0/14// ☽æ 4/49//. ☽æ à ☉ in Sept. tendens 4/35//. Visa Latitudo ☽ A. 0/43//. Sd ☉ 15/30/ Sd ☽ 1 /53//. Aggreg. SSdd. 3/23//. Pars deficiens 30/40//. Quocirca totalis ferè ☉ defectio iis expectanda erit, Digitor. nimirum 11 min 52 sec. 15. Pro tempore durat inquirendo dantur distantia polor 62 gr. Compl. Decl. ☽ 66 gr 31/ Distant. ☽ à M. C. 14 gr. 21/. Altitudo ☽ ☉li quoq; citra errorem competens 76 gr. 19/20//. Parall ☉ 0/42//. Parall ☽ 14/5// ☽æ à ☉ in Bor. vergens 13/43//. Distantia ☽ à puncto Oriente 77 gr. 10 Angulus Eclipticæ cum Verticali 20 gr. 35/50//. Parall Longitud. ☽ 12/50//. Verus motus horar ☽ 29/25//. Visus motus hor. ☽æ 16/35// Scrupula Incidentiæ 31/23// Temp Incidentiæ 1 hor 53/33//. Hinc emergit integrum tempus durationis Eclips ☉ 3 hor. 47/6//.

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	♄ Lat. M D Z	♃ Longit. ♌ G. M.	♃ Lat. S A O	♂ Longit. ♌ G. M.	♂ Lat. S A 4	☉ Longitudo ♑ G. M. S.	♀ Longit. ♑ G. M.	♀ Lat. M A O	☿ Longit. ♒ G. M.	☿ Lat. S A O	☽ Longit. ♓ G. M.	☽ Latit. M A G. M.	☊ Long. ♋ G. M.
1	11	11.21	24	5. 0	44	8. 4	14	21.19. 1	12.39	26	Ret. 8 47	32	21.10	4 32	20.13
2	12	11 21	23	4 58	44	7. 42	15	22.20.17	13.55	28	8. 46	52	♈ 3. 34	5 1	20.3[illegible]
3 ☉	13	Dir. 11 21	23	4. 45	44	7. 20	16	23.21.32	15.10	30	8. 37	I 11	16. 0	5 16 D	21.11
4	14	11.21	23	4. 37	44	6. 58	17	24.22.46	16.26	32	8. 20	30	28.48	5 15	21.50
5	15	11.21	22	4. 29	44	6. 35	19	25.23.58	17.42	34	7. 55	49 Z	♉ 12. 3	4 58	22.28
6	16	11.22	22	4. 21	44	6. 12	20	26.25. 9	18.57	36	7. 22	8	25.43	4 23	22.5[illegible]
7	17	11.22	22	4. 14	45	5. 48	21	27.26.19	20.13	39	6. 41	22	♊ 9. 50	3 32	23.1[illegible]
8	18	11.23	22	4. 6	45	5. 24	22	28.27.29	21.28	41	5. 52	35	24 22	2 26	23. [illegible]
9	19	11.23	21	3. 58	45	5. 0	23	29.28.38	22.44	43	4. 54	49 3	♋ 9 15	1 9 S	22.30
10 ☉	20	11.24	21	3. 50	45	4. 36	24	♒ 0. 29.47	24. 0	45	3. 47	2	24 21	0 13	21.39
11	21	11.25	21	3. 42	45	4. 12	25	1. 30.55	25.15	47	2. 31	16	♌ 9. 32	1 36	20.42
12	22	11.26	20	3. 34	45	3. 48	26	2. 32. 2	26.30	49	1. 15	19	24.39	2 51	19.53
13	23	11 27	20	3. 26	45	3. 24	26	3. 33. 8	27.46	51	0 0	22	♍ 9. 34	3 53	19.24
14	24	11.28	20	3. 18	45	3. 0	26	4. 34 13	29. 1	53	♑ 28.49	25	24. 8	4 40	19.15
15	25	11.29	19	3. 10	46	2. 36	26	5. 35.16	♒ 0. 17	54	27.40	28	♎ 8. 17	5 8	19.[illegible]
16	26	11.31	19	3. 2	46	2. 12	26	6. 36.18	1. 32	56	26.35	30	21.59	5 16	20. 6
17 ☉	27	11 32	19	2. 54	46	1. 48	27	7. 37 19	2. 48	58	25.39	D. 23	♏ 5. 14	D 5 7	20.44
18	28	11.34	18	2. 46	46	1. 24	27	8. 38.19	4. 3	59	24.50	16	18 6	4 44	21.2[illegible]
19	29	11.36	18	2. 38	46	1. 0	27	9. 39.17	5. 19	1 1	24.10	9	♐ 0. 36	4 6	21.56
20	30	11.38	18	2. 30	46	0. 37	27 D.	10.40.13	6. 34	3	23.40	2	12.52	3 18	22.18
21	31	11.40	18	2. 22	46	0 14	27	11 41. 8	7. 49	5	23.21	Z 55	24 55	2 23	22.26
22	Fe. 1	11 42	17	2. 14	46	♋ 29 52	27	12.42. 2	9. 4	6	23.10	44	♑ 6. 50	1 22	22.19
23	2	11.44	17	2. 6	46	29.30	27	13.42.55	10.19	7	23. 7 Dir.	33	18 40	0 18 M	21.58
24 ☉	3	11.46	17	1. 58	46	29 9	26	14.43.47	11.35	8	23.10	22	♒ 0 28	0 47	21.23
25	4	11.49	16	1. 50	47	28 48	26	15.44.38	12.50	10	23.18	11	12.18	1 49	20.41
26	5	11.52	16	1. 42	47	28.28	26	16.45.27	14. 5	11	23.33	0	24 11	2 48	19.5[illegible]
27	6	11.55	16	1. 35	47	28. 8	26	17.46.14	15.20	12	23.54	I 48	♓ 6 9	3 39	19.16
28	7	11.58	15	1. 28	47	27.49	26	18.47. 0	16.36	13	24 20	36	18.15	4 20	18.46
29	8	12. 1	15	1. 20	47	27.30	26	19.47.44	17.51	15	24.50	25	♈ 0 29	4 51	18.3[illegible]
30	9	12. 4	15	1. 13	47	27.12	25	20.48.27	19. 6	16	25.25	13	12.54	5 8	18.30
31 ☉	10	12. 7	15	1. 6	47	26.55	25	21.49 7	20.21	17	26. 4	2	25.33	5 1[illegible]	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriét.	♂ oriét.	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Ianuarij.*				✱ ○ 19			☿ stat. in ☍♂ ferè	11 *Ian.* Hygin
2		△ 2.	△ 8		□ 22	✱ 10		12
3 C.				□ 14. 58			♄ stat. int. △ ♀ (	13 *F1.p.Epiph.*
4	☌ 22.	□ 10.	□ 14.			□ 17	(& □ ☿ & in (	14 Felix
5 Simeon					△ 11		(Td ☉♄	15
6 Epiphan.		✱ 16	✱ 16	△ 17.		△ 19		16 Marcellus
7 Julian.								7 Antonius
8 Erhardus							☍♂☿ 7	8 Prisca
9	✱ 3.				☍ 23.		☍☉☿ 13. ☽☊	19
10 *C1.p.Epip.*		☌ 15	☌ 16	☍ 10. 25		☍ 14	☽ Perig. Eclip. ☽	20 *F2.p Epip.*
11 Hygin.	□ 3						☌☉☿ 11	21 Agneta
12		occid	occid			oriét.	☌♃♂ 21 ☍☉♃ 21. (	22 Vincent.
13 Hilarius	△ 3						(☍☉♂ 2. ☌♀☿ 21	23
14 Felix		✱ 15.	✱ 14.	△ 19	△ 9	△ 7.		24 Timoth.
15								25 Conv. Pau.
16 Marcell.		□ 20	□ 18		□ 19	□ 8	☍♂♀ 9.	26 Polycarp.
17 *C2.p.Epip.*	☍ 12			□ 5. 10			☍♃♀ 2	27 *F3.p.Epip.*
18 Prisca						✱ 12		28
19		△ 4	△ 1	✱ 19.	✱ 10			29
20 Fab & Se.							□☉♄ 23. Td ♄☿	30 Adelgun.
21 Agneta								31
22 Vincent.	△ 10							1 *Februar.*
23			☍ 21.			☌ 9	☽☋ (☽ Apog.	2 Purif. M
24 *C3.p.Epi.*	□ 23	☍ 3					□♄♀ 4 ☿ statio (	3 Blas. 4 *p. Ep*
25 Conv. P.				☌ 7 37	☌ 1		(in Td ♄. ferè	4
26 Polycar.								5 Agatha
27	✱ 11						Td ♄☿	6 Dorothea
28			△ 1.			✱ 12.		7
29		△ 1.						8
30 Adelgun.				✱ 16.	✱ 13			9
31 *C4.p.Epi.*		□ 0.	□ 2.			□ 1	☍♂☿ 0	10 *F. 5 p. Epi.*

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit	☿ Lat	☽ Longit.	☽ Latit.	☊ Long
		♉	M. D Z	♌	S A O	♋	S D 4	♒	♒	M A I	♑	S O O	♉	M D	♋
		G. M.		G. M.		G. M		G. M. S.	G. M.		G. M		G. M.	G. M	G. M.
1	11	12.10	14	0. 58	47	26.38	25	22.49.46	21.36	18	26.48	50	8. 22	4 59	19.1
2	12	12.13	14	0. 51	47	26.22	23	23.50.24	22.51	19	27.36	39	21.32	4 31	19.5
3	13	12.17	14	0. 45	47	26. 7	20	24.51. 0	24. 7	20	28 29	29	♊ 5 2	3 47	20.3
4	14	12.20	13	0. 38	47	25.53	18	25.51.34	25.22	20	29.25	19	18 56	2 48	21 1
5	15	12.24	13	0. 32	47	25.39	15	26.52. 6	26.37	21	♒ 0. 23	8 M	♋ 3. 9	1 38	21.3
6	16	12.27	13	0. 25	47	25.26	12	27.52.35	27.52	21	1. 25	2	17 46	0 21	21.
7 ☾	17	12.31	13	0. 19	47	25.14	10	28.53. 3	29. 7	22	2. 29	11	♌ 2 39	S 0 59	21.1
8	18	12.35	12	0. 13	47	25. 3	7	29 53.30	♓ 0 22	23	3. 35	20	17.44	2 16	20.2
9	19	12.39	12	0. 7	47	24.53	5	♓ 0. 53.55	1. 37	23	4. 43	29	♍ 2 50	3 25	19.33
10	20	12.43	12	0. 1	47	24.44	2	1. 54.18	2. 52	24	5. 53	39	17.49	4 17	18.3
11	21	12.48	12	♋ 29.56	47	24.36	3 59	2. 54.38	4. 7	24	7. 4	48	♎ 2 31	4 51	18. 1
12	22	12.52	11	29 50	47	24.29	57	3. 54.56	5. 22	25	8. 17	55	16 51	5. 7	17.4
13	23	12.56	11	29.45	47	24.22	56	4. 55.12	6. 37	25	9. 32	I 2	♏ 0. 42	D 5 3	17.
14 ☉	24	13. 1	11	29 40	47	24.16	54	5. 55.27	7. 52	26	10.49	9	14. 5	4 43	18.1
15	25	13. 5	11	29.35	47	24.11	52	6. 55 40	9. 7	26 D	12. 8	16	27. 0	4 10	18.
16	26	13.10	10	29.30	47	24. 7	50	7. 55.52	10.22	26	13.28	23	♐ 9. 31	3 24	19.
17	27	13.15	10	29.25	48	24. 3	48	8. 56. 2	11 36	26	14.50	28	21 44	2 31	19.
18	28	13.20	10	29 20	48	24. 0	46	9. 56.10	12.51	26	16.13	33	♑ 3 42	1 32	20.
19	Ma 1	13.25	10	29.16	48	23.57	44	10.56.16	14. 6	25	17.37	39	15.32	0 29	20.4
20	2	13.30	9	29.11	48	23.55	42	11.56.19	15.21	25	19. 2	44	27.18	M 0 34	20.1
21 ☉	3	13.35	9	29. 7	48	23.54	40	12.56 20	16.35	25	20 28	50	♒ 9. 5	1 36	20.4
22	4	13 40	9	29. 3	48	23.54	38	13.56.19	17.50	24	21.56	53	20.56	2 33	20.1
23	5	13.45	9	28.59	48	Dir. 23 54	36	14.56 15	19. 5	24	23.25	57 2	♓ 2 55	3 24	19.4
24	6	13.50	8	28.56	48	23.55	34	15.56. 9	20.20	23	24.15	0	15. 4	4 8	18.5
25	7	13.56	8	28.52	48	23.57	32	16.56 1	21.35	22	26.26	4	27 23	4 39	18.1
26	8	14. 1	8	28.49	48	24. 0	30	17.55.51	22.50	22	27.58	7	♈ 9. 54	4 58	17.
27	9	14. 7	8	28.46	48	24. 3	28	18 55.39	24. 4	21	29 31	8	22.36	D 5 3	17.4
28 ☉	10	14.12	7	28.43	48	24. 7	26	19.55.25	25.19	20	♓ 1. 6	9	♉ 5 27	4 52	16.54

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ occid	♂ occid	☉	♀ Oriét.	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Februar.*	17							11 *Februar.*
2 Purif. Mar		✱17	✱8.	□4.30	□2.	△11.		12
3 Blasius								13
4				△12.	△12		Vc.☉♂ Vc.♂♀	14
5 Agatha	✱15						Digr. Ma. ☿. ☍♃☿	15 Faustin.
6 Dorothea		☌20	☌12				☌☉♀1 ☽☊	16 Juliana
7 C 5. p *Epip*	□16				occid.	☍0	Vc.♃♀ ☽Per. (Bq♂♀	17 *F. Septuag.*
8				☍20.40	☍22		Vc.☉♃ in pr. ♌ ♓ (	18 Concord.
9 Apollonia	△16						(Q☉♄ (Q♄♀ Bq☉♂	19
10 Scholast.		✱20	✱11				Q♄♂	20
11						△8.		21
12		□22.	□13				Bq♃♀	22 Cath. Pet.
13	☍22			△8	△12	□17.	Bq☉♃	23
14 *C. Septuag.*			△19					24 *F. Sexag.*
15 Faustinus		△5		□20.42			□♄☿18	25
16 Juliana					□2	✱9		26
17								27
18 Concord.	△19.			✱14	✱21		✱♄♀10	28
19			☍17				☽☋	1 *Mart.*
20		☍4						2
21 *C. Sexag.*	□9						✱☉♄17 ☽Apog.	3 *F. Esto mihi*
22 Cath. Pet.						☌2		4 Adrian.
23	✱21.						♂ statio, in Vc.☿	5
24 Matthias			△17	☌1.50	☌11.			6 Cinerum
25		△3						7 Perpetua
26							Vc.♃☿ △♂♀23.	8
27		□11.	□3			✱15		9
28 *C. Quinq.*	☌16						Q♄☿	10 *F. Invoc.*

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit	☿ Lat	☽ Longit.	☽ Latit.	☊ Longit.
		♉	M. D	♋	S A	♋	S D.	♓	♓	M D	♓	M A	♉	M D	♋
		G. M.	Z	G. M.	O	G. M.	3	G. M. S.	G. M.	I	G. M	Z	G. M.	G. M	G. M.
1	11	14.18	7	28.40	47	24.12	24	20.55. 9	26.34	20	2. 42	10	18 30	4 26	17. 1
2	12	14.23	7	28.37	47	24.18	22	21.54.51	27.49	19	4. 20	11	♊ 1 45	3 46	17.28
3	13	14.29	7	28.35	47	24.24	20	22.54.31	29. 4	18	5. 59	12	15.12	2 52	18. 2
4	14	14.35	7	28.33	47	24.31	18	23.54. 9	♈ 0. 18	17	7. 39	13	28.55	1 48	18.44
5	15	14 41	6	28.31	47	24.38	17	24.53.44	1. 33	16	9. 20	14	♋ 12.54	0 36 S	19.[illegible]
6	16	14.47	6	28.30	47	24.46	15	25.53.16	2. 48	14	11. 3	14	27.11	0 39	19.[illegible]
7 ☉	17	14.53	6	28.28	47	24.54	13	26.52.47	4. 2	13	12.47	12	♌ 11.43	1 53	20. 4
8	18	14.59	6	28 27	47	25. 3	11	27.52.16	5. 17	12	14.32	10	26.27	3 0	19.5[illegible]
9	19	15. 5	6	28.26	47	25.13	9	28.51.43	6. 31	11	16.18	8	♍ 11.16	3 56	19 14
10	20	15.11	6	28.25	47	25.23	7	29.51. 7	7. 46	10	18. 5	6	26. 3	4 36	18.23
11	21	15.18	5	28.24	47	25.34	6	♈ 0. 50.29	9. 1	9	19.54	4	♎ 10.39	4 57	17.28
12	22	15.24	5	28.24	47	25.45	4	1. 49.49	10.16	8	21.44	0	24.56	4. 58	16.44
13	23	15.30	5	28.23	47	25.57	2	2. 49. 7	11.30	6	23.35	55	♏ 8. 49	4 42	16.1[illegible]
14 ☉	24	15.37	5	28.23	47	26. 9	0	3. 48.23	12.44	4	25.28	51	22 15	4 10	16.1[illegible]
15	25	15.43	5	28.23	47	26.22	58	4. 47.36	13.59	3	27 22	46	♐ 5 14	3 26	16.[illegible]
16	26	15.50	4	28.23	47	26.35	57	5. 46.47	15.13	0. 1	29.17	42	17 48	2 34	16.[illegible]
17	27	15.56	4	28.24	47	26.49	55	6. 45 56	16.27	59	♈ 1. 14	34	♑ 0 1	1 35	17.21
18	28	16. 3	4	28.24	47	27. 4	53	7. 45. 3	17.42	58	3. 12	27	11.59	0 34	17.58
19	29	16.10	4	28 25	47	27.19	51	8. 44. 7	18.56	56	5. 11	20	23 48	0 29	18.31
20	30	16.16	4	28.26	47	27.35	49	9. 43. 8	20.10	54	7. 11	12	♒ 5 33	1 29	18.5[illegible]
21 ☉	31	16.23	4	28.27	47	27.51	47	10.42. 8	21.24	53	9. 12	5	17 20	2 26	19.14
22	Apr. 1	16.30	3	28.29	47	28. 8	46	11.41. 6	22.39	51	11.15	56	29.13	3 17	19.1[illegible]
23	2	16.37	3	28.30	47	28.25	44	12.40. 2	23.53	48	13.20	47	♓ 11.17	3 59	19.[illegible]
24	3	16.44	[illegible]	28.32	47	28.42	42	13.38.56	25. 7	46	15.26	38	23.34	4 32	18.34
25	4	16.51	3	28 34	47	29. 0	40	14.37 48	26.21	44	17.32	29	♈ 6 8	4 52	17.52
26	5	16.58	3	28.36	47	29.18	38	15.36.38	27.35	42	19.39	20	18 56	4 59	17.[illegible]
27	6	17. 5	2	28.38	47	29.36	37	16.35.26	28.49	40	21.46	9	♉ 1 59	4 49	16.17
28 ☉	7	17.12	2	28.41	47	29.55	35	17.34.12	♉ 0 4	38	23.52	2	15.14	4 23	15.42
29	8	17.19	2	28.44	47	♌ 0. 14	33	18.32.55	1. 18	36	25.57	12	28.38	3 44	15.23
30	9	17.27	2	28.47	46	0. 33	31	19.31.36	2. 32	34	28. 1	23	♊ 12 10	2 50	15.23
31	10	17.34	2	28.50	46	0. 53	29	20.30.15	3. 46	32	♉ 0. 4	34	25.50	1 47	15 42

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ Occid	☉	♀ occid	☿ orien	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
Mart. 2 Simplic.		⚹18.	⚹ 10.	⚹5	⚹16	□ 5	(Bq ♃☿ △♃♀15 Bq♂☿(	11 *Martii.* 12 Gregorius
3 4 Adrianus				□14.32	□2.	△ 17	△☉♂17 ☽Peri.	13 Euphras. 14
5 6 Fridelin	⚹3	☌ 2	☌ 20	△21	△10		☽☊	15 16 Cyriacus
7 C. *Quadra* 8	□5						⚹♄☿<. △☉♃14	17 *F. Remin.* 18
9 10	△6	⚹4	⚹23	☍6.42	☍ 2	☍8.	Td ♂♀	19 Joseph 20
11 12 Gregor.		□ 6	□1.				Td♃♀	21 Benedict. 22
13 Euphras. 14 C. *Remin.*	☍12	△11.	△7	△23		△7	△♂☿10	23 24 *F. Oculi*
15 16					△18.		♃ stat prop ♂ & in((△☿ △♃ ☿13 SS ♄ ♀	25 An. Mar. 26 Castulus
17 Gertrud 18	△8.			□15	□13	□ 3	☽☋	27 28
19 Joseph. 20	□22	☍9.	☍7.	⚹9		⚹4	Td☉♂ (Td☉♃ (Td♂☿ (Td♃☿(	29 Eustach. 30 Guido
21 C. *Oculi* 22					⚹9		☽ Apog. Q♄♃(☌☉☿9.	31 *F. Lætare* 1 *apr.* Hugo
23 24	⚹10.	△9.	△ 10			occid	☌♃♂8 SS♄☿Q♄♂	2 Mar. Æg. 3
25 *ann Ma* 26 Castulus		□18	□ 9.	☌17.15	☌ 17.	☌ 1.	□♃♀20.	4 Ambrosius 5
27 28 C. *Lætare*	☌3.						SS ☉♄ □♂♀20	6 7 F *Judica*
29 Eustach. 30 Guidon		⚹0	⚹3	⚹14			□♃☿9	8 9
31					⚹ 15	⚹8.	□♂☿11.	10

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat.	♃ Longit.	♃ Lat.	♂ Longit.	♂ Lat.	☉ Longitudo	♀ Longit.	♀ Lat.	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Long.
		♉ G. M.	M D Z	♋ G. M.	S A O	♌ G. M.	S D Z	♈ G. M. S.	♉ G. M.	M D O	♉ G. M.	S A O	♋ G. M.	M D G. M.	♋ G. M.
1	11	17.42	1	28.53	46	1. 13	27	21.28 51	5. 0	30	2. 6	45	9. 36	0 38 S	16.1
2	12	17.49	1	28.56	46	1. 34	26	22.27.26	6. 14	27	4. 7	55 I	23.30	0 35	16.5
3	13	17.56	1	29. 0	46	1. 55	25	23.25.59	7. 29	25	6. 7	6	♌ 7. 33	1 47	17.41
4	☉14	18. 3	1	29. 3	46	2. 16	23	24.24.30	8. 43	22	8. 6	17	21.45	2 53	18.1
5	15	18.10	1	29. 7	46	2. 38	22	25.23. 0	9. 57	20	10. 3	28	♍ 6. 4	3 47	18.3
6	16	18 18	1	29 11	46	3. 0	20	26.21.27	11.11	18	11.59	38	20.27	4 29	18.2
7	17	18 25	1	29.15	46	3. 22	19	27.19.52	12.25	15	13.50	46	♎ 4. 50	4 52	17.5
8	18	18 32	1	29.20	46	3. 44	18	28.18.15	13.39	13	15.35	54	19. 6	4 59	17.11
9	19	18 40	1	29.24	46	4. 7	16	29.16 36	14.53	10	17.14	Z 2	♏ 3. 8	D 4 46	16.1
10	20	18 47	1	29.29	46	4. [illegible]0	15	♉ 0. 14 55	16. 7	8	18.48	10	16.51	4 17	15.3
11	☉21	18.55	1	29.34	46	4. 53	13	1. 13.12	17.20	5	20.17	18	♐ 0. 12	3 33	14.5
12	22	19. 2	1	29.39	46	5. 16	12	2. 11.27	18.34	3	21.43	21	13. 9	2 41	14.3
13	23	19.10	0	29.44	46	5. 40	11	3. 9. 40	19.48	0 S	23. 5	25	25 43	1 41	14.38
14	24	19.17	0	29 49	46	6. 4	9	4. 7. 51	21. 1	2	24.23	29	♑ 7 57	0. 38	14
15	25	19.28	0	29 54	46	6. 28	8	5. 6. 0	22.15	5	25.36	33	19 57	M 0 25	15.21
16	26	19.33	0	♌ 0 0	46	6. 5[illegible]	7	6. 4. 7	23.29	7	26.45	36	♒ 1. 46	1 26	15
17	27	19.40	0	0. 6	46	7. 18	5	7. 2. 13	24.42	10	27.49	40	13.31	2 24	16.3
18	28	19.48	0	0. 12	46	7. 43	4	8. 0. 18	25.56	12	28.48	43	25 18	3 15	17.
19	29	19.56	0	0. 18	45	8. 9	2	8. 58.20	27.10	15	29 42	47	♓ 7 12	3 59	17.28
20	30	20. 3	0	0. 24	45	8. 35	1 I	9. 56.20	28.23	17	♊ 0 31	50	19.19	4 33	17.41
21	Ma 1	20.11	0	0. 30	45	9. 1	59	10.54.19	29 37	20	1. 15	54	♈ 1. 42	4 54	17 39
22	2	20.19	0	0. 37	45	9. 27	58	11.52.16	♊ 0. 50	22	1. 54	D 43	14.25	5. 2	17.2
23	3	20.27	0	0. 43	45	9. 53	57	12.50.12	2. 4	25	2. 28	32	27.26	D 4 55	16 44
24	4	20.34	0	0 50	45	10.20	55	13.48. 6	3. 17	27	2. 56	21	♉ 10 47	4 32	15.5
25	☉5	20.42	I 59	0. 57	45	10.47	54	14.45.59	4. 31	30	3. 19	19	24 24	3 52	15. 6
26	6	20.50	59	1. 4	45	11.14	53	15.43.50	5. 44	32	3. 35	I 58	♊ 8. 14	2 58	14.22
27	7	20.58	59	1. 11	45	11.42	51	16.41.39	6. 58	35	3. 46	46	22 12	1 53	13.54
28	8	21. 6	59	1. 18	45	12.10	50	17.39.26	8. 11	37	3. 51	34	♋ 6 15	0 41	13.47
29	9	21.14	59	1. 26	45	12.38	49	18.37.12	9. 24	40	3. 53	22	20 19	S 0 34	14. 2
30	10	21.22	59	1. 34	45	13. 6	47	19.34.57	10.38	42	Ret. 3. 50	10	♌ 4. 24	1 47	14.34

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ Occid	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Aprilis.*	⚹ 14.			□ 22.3			☽☊	11 *Aprilis.*
2 Mar. Æg		☌ 9	☌ 14			□ 21		12 Julius
3	□ 18				□ 0		☽ Perig.	13 Justinus
4 *C. Judica*				△ 5			☌♀☿ 11	14 *F. Palmar.*
5	△ 10.				△ 7	△ 7.		15 Olymp.
6		⚹ 14.	⚹ 21.					16
7 Egesippus								17
8		□ 17		☍ 16.54				18 Valerian.
9			□ 2		☍ 21.		□☉♃ 3 Q♃☿	19
10	☍ 3.	△ 23				☍ 4	☌♄☿ 0	20
11 *C. Palmar.*			△ 9				Q♃♀	21 *F. Pascha*
12 Julius							☌♄♀ 10	22
13 Justinus				△ 16				23 Georgius
14 Tiburt.	△ 23						☽☋	24 Albertus
15 Olymp.		☍ 20.			△ 5	△ 13		25 Marcus
16			☍ 11	□ 9.34			☽ Apog.	26
17	□ 11						□☉♂ tar. 11 Q♂☿	27
18 *C. Pascha*					□ 1.	□ 7.	☿ Elong. Max.	28 *F. Quasimo*
19				⚹ 3			⚹♃☿ 20	29
20	⚹ 1.	△ 21.			⚹ 9.	⚹ 23		30
21			△ 15.				⚹♃♀ 19	1 *Maji.* Phi. Ja
22								2
23 Georgius		□ 6	□ 23				☌♀☿ 3	3 Invent. ✠
24	☌ 17.			☌ 5.43				4 Florian.
25 *C. Quasi.*		⚹ 11.			☌ 19	☌ 16		5 *F. Mis. Dom.*
26			⚹ 5.					6 Jo. an. por.
27								7
28 Vitalis				⚹ 21			☽☊	8 Stanislaus
29	⚹ 1.	☌ 19				⚹ 23	(Q☉♃	9
30			☌ 15.		⚹ 11.		☿ stat ☾ Perig.	10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	☊ Longit.
		♉	M D I	♌	S A O	♌	S D I	♉	♊	S A O	♊	S D O	♌	S A	♋
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	21.30	59	1. 42	45	13.34	46	20.32.41	11.51	45	3. 44	58	18.28	2 54	15.16
2	☉12	21.37	59	1. 50	45	14. 2	45	21.30.23	13. 4	47	3. 33	42	♍ 2. 30	3 50	15.58
3	13	21.44	59	1. 58	45	14.30	44	22.28. 3	14.17	50	3. 16	26	16.31	4 32	16.34
4	14	21.51	59	2. 6	45	14.58	43	23.25.41	15.31	52	2. 54	10 M	♎ 0. 30	4 57	16.55
5	15	21.58	59	2. 14	45	15.27	41	24.23.18	16.44	54	2. 28	6	14.26	5 6 D	16.55
6	16	22. 6	59	2. 22	45	15.56	40	25.20.54	17.57	56	1. 59	22	28.14	4 57	16.35
7	17	22.13	59	2. 30	45	16.25	39	26.18.29	19.10	59 I	1. 28	39	♏ 11 51	4 30	15.57
8	18	22.20	59	2. 39	45	16.54	38	27.16. 2	20.23	1	0. 55	57 I	25.14	3 49	15. 9
9	☉19	22.28	59	2. 47	45	17.23	37	28.13.34	21.36	3	0. 20	14	♐ 8. 21	2 56	14.2
10	20	22.35	59	2. 56	45	17.53	36	29.11. 5	22.49	6	♉ 29.44	31	21. 8	1 56	13.39
11	21	22.43	59	3. 5	45	18.22	35	♊ 0. 8. 35	24. 2	8	29. 9	48 Z	♑ 3. 37	0 52 M	13.12
12	22	22.50	59	3. 14	45	18.52	34	1. 6. 4	25.15	10	28.33	3	15.50	0 15	13. 2
13	23	22.58	59	3. 23	45	19.22	33	2 3. 32	26.27	12	27.58	18	27 49	1 18	13. 7
14	24	23. 5	59	3. 32	45	19.52	32	3. 0. 59	27.40	14	27.24	33	♒ 9. 40	2 18	13.25
15	25	23.13	59	3. 41	45	20.22	31	3. 58.25	28 53	16	26.53	48 3	21 26	3 13	13.5
16	☉26	23.21	59	3. 51	45	20 53	30	4.55. 49	♋ 0. 6	17	26.25	3	♓ 3 14	3 58	14.25
17	27	23.28	59	4. 0	45	21.24	28	5. 53.12	1. 19	19	26. 0	13	15. 8	4 35	15.
18	28	23.36	59	4. 10	45	21.55	27	6. 50.33	2. 31	21	25.38	22	27.15	4 58	15.37
19	29	23.44	59	4. 20	45	22.26	26	7. 47.54	3. 44	23	25.19	32	♈ 9 37	5. 10 D	15.59
20	30	23.51	59	4. 30	45	22.57	25	8. 45.15	4. 57	25	25. 3	41	22 23	5 6	16. 8
21	31	23.55	59	4. 40	45	23.28	24	9. 42 35	6. 9	27	24 51	51	♉ 5 31	4 46	15.59
22	Iu. 1	24. 7	59	4. 50	45	24. 0	23	10.39.54	7. 21	28	24.43	55	19. 2	4 11	15.31
23	2	24.15	59	5. 0	45	24.31	22	11.37.11	8. 34	30	24 40	59	♊ 2. 55	3 20	14.46
24	3	24.22	59	5. 10	45	25. 2	21	12.34.27	9. 46	31	Dir 24 42	4 4	17. 3	2 42	13.53
25	4	24.30	59	5. 21	45	25.34	20	13.31.42	10.58	32	24.48	8	♋ 1. 28	1 1 S	13. 3
26	5	24.38	59	5. 31	45	26. 6	19	14.28.56	12.11	34	25. 0	12	15.58	0 18	12.27
27	6	24.46	59	5. 41	45	26.38	17	15.26.10	13.23	35	25.17	9	♌ 0 29	1 36	12.14
28	7	24.54	59	5. 52	45	27.10	16	16.23.24	14.35	36	25 37	6	14.56	2 48	12.24
29	8	25. 2	59	6. 2	44	27.42	15	17.20.37	15 47	37	26. 1	3	29.14	3 48	12.53
30	9	25.10	59	6. 13	44	28.15	14	18.17.49	17. 0	39	26.30	1	♍ 13 23	4 34	13.33
31	10	25 18	59	6. 23	44	28.47	13	19.15. 1	18.12	40	27. 2	3 58	27 19	5 3	14.16

Stylo Veteri	SYZYGIÆ LUNARES. ♄ occid.	♃ occid.	♂ occid	☉	♀ Occid.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Maji.* Ph.J.	□5			□3.49				11 *Maji*
2 *C.Mis.D.*	Orien.				□20	□2	☌☉♄3	12 *F. Jubilat.*
3 Invent.✠	△9			△11			✶♂♀ tardior 7(	13 Servat.
4		✶3				△4	(Q♂☿	14
5 Gothard.			✶2		△4.		✶♃☿9	15 Sophia
6 Jo.an.por.		□7.						16
7	☍19		□8.					17
8 Stanislaus		△14		☍4.0		☍10		18 Potent.
9 C *Jubil.*			△16				SS♄♀	19 *F.Cantat.*
10					☍3.	Orien.	☌☉☿ 8.	20
11							☽☋	21
12 Pancrat.	△14							22
13 Servatius		☍11.		△9		△0	SS ♀☿	23 Desider.
14			☍22				✶☉♃15. ☽Apo.	24
15 Sophia	□3.				△17	□10.		25 Urbanus
16 *C. Cantate*				□3.44				26 *F. Rogate*
17	✶17					✶21		27
18 Potent.		△14		✶18	□9			28
19 Bernhar							SS ♃♀	29
20		□22.	△1					30 Asc.Do.
21					✶1			31
22	☌9		□9			☌10	□♄♂7	1 *Iunij*
23 *C. Rogate*		✶3.		☌15.50			☿ stat. in ☌♄ □♂ & Q ♃ ferè	2 *Exaud.*
24			✶12					3 Erasmus
25 Urbanus					☌17		☌♄☿ ferè ☽☊ (	4
26 Beda	✶14.					✶15	(Q☉♂	5 Bonifac.
27 Asc.Do.		☌9					☽ Perig.	6
28	□17.		☌21	✶2.		□18.		7
29								8 Medard.
30 *C.Exaudi*	△20.			□9.12	✶7	△23.		9 *F.Pentec.*
31 Petronel.		✶16						10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	♄ Lat M. D I	♃ Longit. ♌ G. M.	♃ Lat S A O	♂ Longit ♌ G. M.	♂ Lat S D I	☉ Longitudo. ♊ G. M. S.	♀ Longit ♋ G. M.	♀ Lat S A I	☿ Longit. ♉ G. M.	☿ Lat M D 3	☽ Longit. ♎ G. M.	☽ Latit. M A G. M.	☊ Longit. ♋ G. M.
1	11	25.26	59	6. 34	44	29.20	12	20.12.13	19.24	41	27.38	55	11. 3	5 14 D	14.53
2	12	25.33	59	6. 45	44	29.52	11	21.9. 23	20.36	42	28.19	48	24 38	5 8	15.18
3	13	25.41	59	6. 56	44	♍ 0. 24	10	22.6. 33	21.47	43	29. 5	41	♏ 8. 1	4 44	15.24
4	14	25.48	59	7. 7	44	0. 57	9	23.3. 43	22.59	43	29.58	35	21.13	4 5	15.12
5	15	25.55	59	7. 18	44	1. 30	8	24.0. 52	24.11	44	♊ 0. 56	28	♐ 4. 12	3 16	14.41
6	☉ 16	26. 3	59	7. 29	44	2. 3	8	24.58. 1	25.23	44	1. 59	22	16 57	2 16	13.59
7	17	26.10	59	7. 40	44	2. 36	7	25.55. 9	26.35	45	3. 4	12	29 30	1 12	13.12
8	18	26.17	59	7. 51	44	3. 9	6	26.52.17	27.46	46	4. 11	2	♑ 11 49	0 4	13.23
9	19	26.25	59	8. 3	45	3. 43	5	27.49.24	28.58	46	5. 20	2 52	23.56	M 1 3	11.53
10	20	26.32	59	8. 14	45	4. 16	4	28.46.31	♌ 0 10	47	6. 32	43	♒ 5 54	2 5	11.33
11	21	26.39	59	8. 26	45	4. 50	3	29 43.38	1. 21	47	7. 47	33	17.45	3 2	11.2
12	22	26.46	59	8. 37	45	5. 24	2	♋ 0. 40.45	2. 32	47 D	9. 6	21	29 33	3 52	11.37
13	☉ 23	26.53	59 Z	8. 49	45	5. 58	1	1. 37.52	3. 43	47	10 29	10 I	♓ 11.22	4 30	11.59
14	24	27. 0	0	9. 0	45	6. 32	0	2. 34.59	4. 55	47	11.57	58	23.17	4 59	12.3
15	25	27. 7	0	9. 12	45	7. 6	O 59	3. 32. 6	6. 6	47	13.29	46	♈ 5. 23	5 15	13.[illegible]
16	26	27.13	0	9. 24	45	7. 40	58	4. 29.12	7. 17	46	15. 5	35	17.45	5 16	13.41
17	27	27.20	0	9. 36	45	8. 14	57	5. 26.18	8. 28	46	16.43	23	♉ 0. 24	D 5 2	14.13
18	28	27.26	0	9. 48	45	8. 49	57	6. 23.24	9. 40	46	18.23	10	13.33	4 32	14.31
19	29	27.33	0	10. 0	45	9. 23	56	7. 20.30	10.51	46	20. 6	O. 58	27. 5	3 46	14.32
20	☉ 30	27 39	0	10.12	45	9. 58	55	8. 17.36	12. 2	45	21.52	46	♊ 11. 3	2 46	14.12
21	Iul. 1	27.45	0	10.24	45	10.33	54	9. 14.42	13.13	45	23.41	34	25.23	1 34	13.32
22	2	27.52	0	10.36	45	11. 7	53	10.11.48	14.24	44	25 32	22	♋ 10. 2	0 14	12.39
23	3	27.58	0	10.48	45	11.42	52	11.8. 54	15.35	43	27.26	11 S	24 53	S 1 8	11.44
24	4	28. 4	0	11. 0	45	12.17	51	12.6. 1	16.47	42	29 22	9	♌ 9. 49	2 25	11. 2
25	5	28.11	0	11.13	45	12.52	50	13.3. 8	17.58	41	♋ 1. 22	11	24 41	3 33	10.42
26	6	28.17	0	11.25	45	13.27	49	14.0. 15	19. 9	40	3. 26	23	♍ 9. 22	4 25	10.41
27	☉ 7	28.23	0	11.37	45	14. 2	48	14.57.22	20.20	39	5 34	32	23 46	5 0	11.12
28	8	28.29	1	11 50	45	14.37	47	15.54.30	21.31	38	7. 44	42	♎ 7 51	5 16	11.10
29	9	28.35	1	12. 2	45	15.12	46	16.51.38	22.42	37	9. 56	51 I	21.35	D 5 13	12.32
30	10	28.41	1	12.15	45	15.47	46	17.48.46	23.53	36	12. 8	1	♏ 4. 59	4 53	13.10

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ occid.	♂ occid	☉	♀ Occid.	☿ Orien.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Junij*				△17.	□ 16			11 *Iunij*
2		□ 22	✱ 10					12
3 Erasmus							(SS☉♀	13
4	☍8.		□ 18		△3.	☍17.	☿ dist.max.à ☉(	14 Valerius
5 Bonifac.		△6						15
6 *C.Pentec.*				□̸16; 3)			✱♄♀15□♂☿3	16 *F.Trinitat.*
7			△ 6				SS ☉♄	17
8							☽☋	18
9	△5				☍ 11			19
10 Onophr.		☍ 5				△ 1.	☽ Apog.	20 Sylverius
11	□18						✱♃☿14	21
12			☍12.	△ 2.		□ 22		22 X M.Mar.
13 *C.Trinit.*								23 *F 1.p.Tr.*
14 Valerius	✱ 7.			□ 20.1			Q. ♄♃	24 Jo.Bapt.
15		△7.			△1.	✱18		25
16 Roland.							SS ♂♀	26
17		□18.	△ 15	✱ 10	□16		Q♄♀	27 7 dorm.
18							☉ in Apo. ☌♃♀3	28
19 Gervas.	☌ 1	✱12.	□22					29 Pet Pau.
20 *C 1.p.Tr.*					✱ 2	☌ 21	SS ♃♂	30 *F 2.p.Tr.*
21							(Eclipsis ☉	1 *Iulij*
22 X M. Ma.			✱ 2	☌ 0.16			SS ☉♃ ☽☊(	2 Visit.Mar.
23	✱ 5						SS ♄☿	3
24 Joa.Bap.		☌ 2			☌ 12		✱☉♂ tar.12 (	4 Ulricus
25	□6					✱ 13	(☽ Per. Q♂☿	5 Anshelm.
26			☌7	✱ 8				6
27 *C 2.p.Tr.*	△8							7 *F 3.p.Tr.*
28		✱7		□ 15.7		□ 0		8 Chilian.
29 Pet.Paul.					✱2			9
30		□13.	✱21			△16	SS ♃☿	10 7 fratres

Styl. Veteri	Stylo Novo	♄ Longit ♉ G M	♄ Lat M D Z	♃ Longit. ♌ G. M	♃ Lat S A O	♂ Longit. ♍ G. M	♂ Lat S D O	☉ Longitudo ♋ G. M. S.	♀ Longit ♌ G. M.	♀ Lat S D I	☿ Longit. ♋ G. M.	☿ La. S A I	☽ Longit. ♏ G. M	☽ Latit. M D G M	☊ Longit ♋ G M.
1	11	28 47	1	12.27	45	16.23	45	18.45.54	25. 3	35	14.19	10	18 6	4 18	13.38
2	12	28.53	1	12.40	45	16.59	44	19.43. 3	26.13	33	16.29	16	♐ 0. 58	3 30	13.51
3	13	28.59	1	12.52	45	17.34	43	20.40 12	27.23	31	18.39	21	13.36	2 34	13.46
4 ☉	14	29. 5	1	13. 5	45	18.10	42	21.37.22	28.33	29	20.48	27	26 2	1 31	13.24
5	15	29.11	1	13 17	45	18.46	42	22.34.32	29.43	27	22.56	32	♑ 8. 17	0 24 S	12.45
6	16	29 17	1	13.30	45	19.22	41	23.31.43	♍ 0. 53	25	25. 3	37	20 24	0 43	12 5
7	17	29 22	2	13.43	45	19.58	40	24.28.55	2. 3	23	27. 9	39	♒ 2. 24	1 47	11 20
8	18	29.28	2	13 55	45	20.34	39	25.26. 7	3. 12	21	29.14	41	14 18	2 46	10.43
9	19	29 33	2	14. 8	45	21.11	38	26.23.30	4. 22	19	♌ 1 19	43	26 10	3 37	10.10
10	20	29.35	2	14.21	45	21.47	38	27.20.33	5. 32	18	3. 22	44	♓ 8. 0	4 20	9. 5[illegible]
11 ☾	21	29 44	2	14.33	45	22.23	37	28.17.47	6. 41	16	5. 24	46 D	19.53	4 51	9. 55
12	22	29 49	2	14 46	45	23. 0	36	29 15. 1	7. 51	13	7. 24	45	♈ 1. 50	5 11	10. 9
13	23	29.54	2	14 59	45	23.36	35	♌ 0. 12. 16	9. 1	10	9. 22	43	13.57	5 16 D	10.3[illegible]
14	24	29.59	3	15.12	45	24.13	34	1. 9. 32	10.12	7	11.19	41	26.18	5 6	11.1[illegible]
15	25	♊ 0. 4	3	15.25	45	24.50	34	2. 6. 49	11.22	4	13.14	39	♉ 8. 56	4 42	11.[illegible]
16	26	0. 9	3	15.38	45	25.27	33	3. 4. 8	12.32	1	15. 8	38	21.56	4 3	12.[illegible]
17	27	0. 14	3	15.51	45	26. 4	32	4. 1. 27	13.42	0 59	17. 0	33	♊ 5. 22	3 11	12.51
18	28	0 19	3	16. 4	45	26.41	31	4. 58.47	14.52	56	18.51	29	19 14	2 5	13. 1
19	29	0. 24	3	16.17	46	27.18	30	5. 56. 8	16. 2	53	20 40	25	♋ 3. 33	0 49 S	12.49
20	30	0. 28	3	16.30	46	27.55	30	6. 53.30	17.12	50	22.27	20	18.15	0 31	12.15
21	31	0. 33	3	16.43	46	28.32	29	7. 50.52	18.22	47	24.13	16	♌ 3 15	1 51	11.23
22	Iun 1	0. 38	4	16.56	,6	29. 9	28	8. 48.16	19.31	44	25.57	10	18.25	3 4	10.26
23	2	0. 4-	4	17. 9	46	29 46	27	9. 45.41	20 40	40	27.40	4	♍ 3. 36	4 49	9. 35
24	3	0. 46	4	17.22	46	♎ 0 24	26	10.43. 7	21.49	36	29 21	0 57	18 37	4 45	9. 12
25 ☉	4	0. 50	4	17.35	46	1. 1	26	11 40.34	22.58	33	♍ 1. 0	51	♎ 3. 20	5 8	9. 10
26	5	0. 54	4	17.48	46	1. 39	25	12.38. 3	24. 7	29	2. 38	45	17.38	5. 11	9. 30
27	6	0. 58	4	18. 2	46	2. 16	24	13.35.33	25.16	25	4. 15	37	♏ 1. 30	D 4 55	10. [illegible]
28	7	1. 2	4	18.15	46	2. 54	23	14.33. 4	26.24	22	5. 51	29	14.56	4 23	10.44
29	8	1. 6	5	18.28	46	3. 32	22	15.30.36	27.33	18	7. 25	21	27.58	3 38	11.2[illegible]
30	9	1. 9	5	18.41	46	4. 9	22	16.28. 9	28.41	15	8. 57	13	♐ 10 39	2 44	11 5[illegible]
31	10	1. 12	5	18.54	46	4. 47	21	17.25.43	29.49	11	10.26	5	23. 4	1 42	12.1[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ occid.	♂ occid	☉	♀ occid.	☿ oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Julius.*	☍ 20			△1	□14		Td ♄♂	11
2 Visit. Mar.		△ 22.					✱♂☿ 7.	12
3			□8					13 Margaret.
4 *C 3 p. Tr.*					△ 5.		☌☉☿16. □♄♀12	14 *F 4. p. Tr.*
5 Anshelm.			△22			Occi.	☽☋	15 Divis. Ap.
6	△ 18			☍6.48		☍11		16
7		☍23					☽ Apog.	17 Alexius
8 Chilianus							✱♄☿3	18 Rosina
9 Cyrillus	□7				☍18.			19
10 7 Fratr.								20
11 *C 4. p. Tr.*	✱ 20		☍5	△15.				21 *F 5. p. Tr*
12						△13	✱☉♄16 SS♀☿	22 Ma. Mag.
13 Magnus		△2						23
14				□9.56			Q♄☿	24 Christin.
15 Divis. Ap.		□ 12			△5	□9		25 Jacobus
16	☌ 15		△6.	✱21.			☌♃☿7	26 Anna
17 Alexius		✱ 18.			□16	✱ 23	Td♄♀	27 Martha
18 *C 5. p. Tr.*			□13					28 *F 6. p. Tr.*
19					✱22		SS♃♀ ☽☊	29 Beatrix
20	✱19.		✱16					30
21		☌ 21.		☌7.45				31 German.
22 Mar. Ma.	□19.					☌ 13.	☽ Perig.	1 *Augusti*
23 Apollin.								2
24 Christin.	△ 20		☌ 20		☌5.		△♄♂16 □♄☿21.	3
25 *C 6. Iac.*				✱15			SS♃☿	4 F Ari 7 Tr.
26 Anna		✱ 0					Q ☉♄	5 Osvvald.
27 Martha				□23.16		✱5.		6 Sixtus
28		□6			✱ 23.			7
29 Beatrix	☍6		✱11			□ 20.		8
30		△ 16.		△ 12				9 Romanus
31 German.					□14.			10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo	♀ Longit	Lat	☿ Longit.	La.	☽ Longit	Latit.	☊ Longi
		♉	M D Z	♌	S O	♎	S D O	♌	♎	S D O	♍	M A O	♑	S D	♋
		G. M		G. M		G. M		G. M. S.	G. M.		G. M.		G. M	G. M.	G. M.
1	☉ 11	1. 15	5	19. 7	46	5. 25	20	18.23.19	0. 57	7	11.52	2	5. 16	38 M	12.16
2	12	1. 18	5	19.21	46	6. 3	19	19.20.56	2. 5	3 M.	13.17	11	17.20	0 27	12. 4
3	13	1. 22	5	19.34	46	6. 41	19	20.18.34	3. 13	1	14.41	20	29 16 ♒	1 31	11.3
4	14	1. 25	5	19.47	46	7. 19	18	21.16.13	4. 20	6	16. 4	29	11. 9	2 30	10.59
5	15	1. 29	6	20. 0	46	7. 57	17	22.13.54	5. 27	10	17.27	38	23. 1 ♓	3 [illegible]3	10.1
6	16	1. 32	6	20.13	47	8. 36	16	23.11.37	6. 34	14	18.49	47	4 53	4 6	9. 31
7	17	1. 35	6	20.26	47	9. 14	16	24.9. 21	7. 41	18	20. 9	56 I	16.48	4 18	9. 5
8	☾ 18	1. 38	6	20.39	47	9. 53	15	25.7. 5	8. 48	23	21.27	6	28 46 ♈	5 0	8. 29
9	19	1. 41	6	20.43	47	10.32	14	26.4. 53	9. 55	27	22.42	15	10 51	5 8 D	8. 19
10	20	1. 44	6	20.56	47	11.11	13	27.2. 41	11. 2	31	23 54	24	23 2 ♉	5 2	8. 24
11	21	1. 47	7	21. 9	47	11.49	13	28.0. 32	12. 9	36	25. 3	34	5. 26	4 41	8. 45
12	22	1. 49	7	21.22	47	12.28	12	28.58.24	13.15	41	26.10	43	18. 3 ♊	4 8	9. 1
13	23	1. 52	7	21.35	47	13. 7	11	29.56.18 ♍	14.22	45	27.15	53 Z	0. 58	3 20	9. 5
14	24	1. 54	7	21.48	47	13.46	11	0. 54.14	15.28	50	28.19	2	14.15	2 21	10.5
15	☽ 25	1. 56	7	22. 1	47	14.25	10	1. 52.11	16.34	55 I	29.21 ♎	12	27.57 ♋	1 12 S	11.
16	26	1. 58	7	22.14	47	15. 4	9	2. 50.10	17.40	0	0 21	21	12 5	0 3	11.2
17	27	2. 0	8	22.27	48	15.43	8	3. 48.11	18.45	5	1. 18	30	26 38 ♌	1 20	11.2
18	28	2. 2	8	22.40	48	16.22	8	4. 46.13	19.51	10	2. 12	39	11 33	2 34	10.5
19	29	2. 4	8	22.53	48	17. 2	7	5. 44.16	20.56	15	3. 3	48	26 43 ♍	3 37	10. 7
20	30	2. 6	8	23. 6	48	17.41	6	6. 42.21	22. 1	20	3. 51	57 -3	11 58	4 25	9. 10
21	31 Se.	2. 7	8	23.19	48	18.20	6	7. 40.27	23. 6	25	4. 36	6	27. 9 ♎	4 54	8. 19
22	☉ 1	2. 9	9	23.31	48	19. 0	5	8. 38.35	24.11	30	5. 18	13	12 3	5 3 D	7. 45
23	2	2. 10	9	23.44	48	19.39	4	9. 36.46	25.15	35	5. 55	21	26 34 ♏	4 52	7. 35
24	3	2. 12	9	23.57	48	20.19	3	10.34.59	26.19	40	6. 26	28	10 37	4 23	7. 46
25	4	2. 13	9	24.10	48	20.59	3	11.33.13	27.23	45	6. 52	36	24. 9 ♐	3 40	8. 15
26	5	2. 14	9	24.22	48	21.38	2	12.31.29	28.27	50	7. 13	43	7. 14	2 47	8. 5
27	6	2. 15	9	24.35	49	22.18	1	13.29.17	29.30 ♏	55 Z	7. 28	47	19 54 ♑	1 47	9. 3
28	7	2. 16	9	24.48	49	22.58	1	14.28. 8	0. 33	0	7. 37	51	2. 14	0 44 M	10.
29	☾ 8	2. 16	10	25. 0	49	23.38	M. 0	15.26.31	1. 36	6	7. 42 Ret.	55	14.20	0 20	10.30
30	9	2. 17	10	25.13	49	24.18	1	16.24.55	2. 39	11	7. 41	58 -4-	26.16 ♒	1 23	10.43
31	10	2. 17	10	25.25	49	24.58	1	17.23.21	3. 42	16	7. 37	2	8 7	2 21	10.40

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ occid	♂ Occid	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 ☾ 7 *Au.* V.P 2		 oriét.	□ 0.			△15	△♄♀6. Td☉♄☾ ☌☉♃0 ☽☋	11 *F 8.p.Tr.* 12 Clara
3 4 Ariſtarch.	△4	 ☍ 17.	△16	 ☍ 22.16	△9			13 14 Euſebius
5 Oſvvald. 6 Sixtus	□ 17						☽ Apog. Td ♄☿	15 Aſſ. Mar. 16 Rochus
7 8 *C.8.p.Tr.*	 ✱6		 ☍23.		 ☍21	☍ 7.	SS ♃☿	17 18 *F9.Tr.*Hele.
9 10 Laurent.		△20		 △8.			 ☌♂♀ tardior 7.	19 Sebaldus 20
11 12 Clara		 □ 6		 □21.35		 △ 16.		21 22
13 Hippolit 14 Euſebius	☌ 1.	 ✱13.	△23		 △2			23 Zachæus 24 Bartholo.
15 *C 9.p.Tr.* 16 Rochus			 □5	✱7	 □10	□ 2.	□☉♄2 ☿ Elóg. Ma. ☽☊	25 *F 10.p.Tr.* 26
17 18 Helena	✱ 8.	 ☌ 18	 ✱ 18		 ✱4	✱ 8	△♄☿19.	27 Gebhard. 28 Auguſtin.
19 Sebaldus 20	□8			☌ 5.9			☽ Perig.	29 Decol. Jo 30
21 22 *C 10 p.Tr.*	△ 8	 ✱19	 ☌ 12		 ☌21.	☌ 12.	✱♃♀6	31 Paulinus 1 *F 11.p.T.Sept.*
23 Zachæus 24 Barthol.				 ✱0			Bq ♄♀	2 Veronica 3
25 Ludovi. 26	☍ 15	□ 0		 □10.50		 ✱0		4 Theodoſ. 5
27 Gebhar. 28 Auguſti.		△9	✱5		✱ 20.	 □10.	 ☽☋	6 Magnus 7 Regina
29 *C 11.p.Tr.* 30	 △12		□20	△ 1.	 □14	 △23	Vc. ♄♀ ☿ ſtatio.	8 *F 12 Tr.* Na. M. 9 Gorgonius
31 Paulinus								10

Styl. Veteri	Stylo Novo	♄ Longit. ♊ G. M.	Lat. M. D Z	♃ Longit. ♌ G. M.	Lat. S A O	♂ Longit. ♎ G. M.	Lat. M A O	☉ Longitudo. ♍ G. M. S.	♀ Longit. ♏ G. M.	Lat. M A Z	☿ Longit. ♎ G. M.	Lat. M A 4	☽ Longit. ♒ G. M.	Latit. M A G. M	☊ Longit. ♋ G. M.
1	11	2. 17	10	25.47	49	25.38	2	18.21.49	4. 44	21	7. 28	6 D	19.56	3 12	10.22
2	12	2. 17	10	25.59	49	26.18	3	19.20.19	5. 46	25	7. 10	3	♓ 1. 47	3 56	9. 51
3	13	2. 18	11	26.12	49	26.59	4	20.18.51	6. 48	29	6 43	0 3	13.42	4 29	9. 11
4	14	2. 18 -Retr-	11	26.24	49	27.40	4	21.17.25	7. 49	33	6. 8	57	25.43	4 51	8. 26
5 ☉	15	2. 18	11	26.36	50	28.21	5	22.16. 2	8. 50	37	5. 27	54	♈ 7 51	5 0	7. 4
6	16	2. 18	11	26.49	50	29. 2	5	23.14.41	9. 51	42	4. 40	50	20. 6	D 4 55	7. 5
7	17	2. 17	11	27. 1	50	29.42	6	24.13.21	10.52	46	3. 48	38	♉ 2 30	4 35	6. 45
8	18	2. 17	12	27.13	50	♏ 0. 23	7	25.12. 3	11.52	50	2. 51	26	15. 3	4 3	6. 4
9	19	2. 17	12	27.26	50	1. 4	7	26.10.47	12.52	54	1. 51	14	27 46	3 10	6. 55
10	20	2. 16	12	27.38	50	1. 45	8	27.9. 33	13.51	58	0. 47	2	♊ 10 43	2 23	7. 2
11	21	2. 16	12	27.50	50	2. 26	9	28.8. 22	14.50	-3- 2	♍ 29 39	-Z- 50	23 56	1 1	8. 5
12 ☉	22	2. 15	12	28. 3	50	3. 7	9	29.7. 13	15.49	8	28.33	31	♋ 7 29	0 8	8. 46
13	23	2. 14	12	28.15	51	3. 48	10	♎ 0. 6. 6	16.47	14	27.29	12	21.23	-S- 1. 5	9. 24
14	24	2. 13	12	28.27	51	4. 29	11	1. 5. 2	17.45	20	26.29	1 53	♌ 5 41	2 16	9. 4
15	25	2. 12	13	28.39	51	5. 10	11	2. 4. 0	18.42	25	25.32	35	20.19	3 18	9.
16	26	2. 11	13	28.51	51	5. 52	12	3. 3. 1	19.39	31	24.38	16 0	♍ 5. 15	4 9	9.
17	27	2. 9	13	29 3	51	6. 33	13	4. 2. 3	20.35	37	23.52	57	20 19	4 43	8. 51
18	28	2. 8	13	29.18	51	7. 14	13	5. 1. 6	21.31	43	23.17	38	♎ 5. 24	4 58	7. 5
19	29	2. 6	13	29.27	51	7. 56	14	6. 0. 11	22.27	48	22.55	19	20 17	-D- 4 51	7.
20	30	2. 4	13	29.38	52	8. 37	14	6. 59.18	23.22	54	22.45 --Dir.--	5 0	♏ 4 51	4 26	6. 2
21	Oc 1	2. 2	14	29.50	52	9. 19	15	7. 58.27	24.16	-4- 0	22 45	19	18.58	3 45	6.
22	2	2. 0	14	♍ 0. 1	52	10 0	16	8. 57.39	25.10	4	22.54	32	♐ 2 37	2 52	6.
23	3	1. 58	14	0. 13	52	10.42	16	9. 56.54	26. 3	8	23.11	46 1	15.46	1 51	6. 2
24	4	1. 56	14	0. 24	52	11.24	17	10.56.11	26 56	12	23.38	0	28.30	0 47	6. 5
25	5	1. 54	14	0. 35	52	12. 5	18	11.55.31	27.48	16	24.14	13	♑ 10 51	-M- 0 18	7. 3
26	6	1. 52	14	0. 46	52	12.47	18	12.54.53	28.39	20	25. 1	27	22 56	1 21	8.
27	7	1. 49	14	0. 57	52	13.29	19	13 54.17	29 30	24	25.57	32	♒ 4 51	2 18	8. 3
28	8	1. 47	15	1. 8	53	14.11	20	14.53 43	♐ 0 20	28	27. 0	38	16.39	3 10	9.
29	9	1. 44	15	1. 19	53	14.53	20	15.53.11	1. 9	32	28.10	44	28 27	3 54	9.
30	10	1. 41	15	1. 30	53	15.35	21	16.52 15	1. 58	36	29.26	,0	♓ 10 19	4 27	9.

Stylo Veteri.	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ oriét.	♃ oriét.	♂ occid	☉	♀ occid	☿ occid		
1 *Septemb.* 2 Veronica	□1	☍12	△12		△9		✶♃♂8 Bq♄♂ ☽ Apog.	11 *Septembr.* 12
3 4 Theodos.	✶13			☍14.23		☍19.	Q♃♀	13 14 Exalt ✠
5 C 12 *p. Tr.* 6 Magnus		△13	☍18					15 *F 13 p. Tr.* 16 Euphem.
7 8 Nat. Mar.		□23.		△21	☍17.			17 18
9 Gorgon. 10	☌8.					△7	SS☉♃. SS♂☿ (♈☉☿17.vc.♄♂(	19 20 Fausta
11 12 C 13.*p. Tr.*		✶7	△16	□8.1	△15.	Oriét.	Hesper à ☉ lōg. abest SS ♃☿☽☊	21 Martha 22 *F 14 p. Tr.*
13 14 Exalt. ✠	✶18		□22	✶15.	□21	✶9.		23 Esdra 24
15 Nicode. 16 Euphem.	□19	☌13.	✶1				△☉♄3 ☽Perig.	25 26 Cyprian.
17 Lampert. 18	△19			☌23.21	✶0.	☌5.		27 Cosm. Da. 28 Wencesl.
19 C 14.*p. Tr.* 20 Fausta		✶15	☌7				✶♀☿10.	29 *F 15. p. Tr.* 30 Hieron.
21 22 Maurit.	☍23	□19		✶12.	☌10	✶7	☿ stat. in ✶♀ & ((T d♄ ferè	1 *Octobr.* 2 Leodegar.
23 Esdra 24 Samuel		△4				□14.	☽☋	3 4 Franciscus
25 26 C 15.*p Tr.*	△18		✶2.	□2.19	✶12.	△4.	SS☉♂ Q♃♂	5 6 *F 16. p. Tr.*
27 Cosm. D. 28			□18.	△20			☿ digr. max à ☉ (☽ Apog.	7 8
29 Michael 30 Hieron.	□6.	☍6	△11		□6		☍♄♀16. □☿♀6 (□♄♃20	9 Dionys. 10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	Lat	☽ Longit.	Latit.	☊ Longit.
		♊	M. D	♍	S A	♏	M A	♎	♏	M A	♎	S. A	♓	M A	♋
		G. M.	Z	G. M.	O	G. M.	O	G. M. S.	G. M.	4	G. M.	I	G. M.	G. M.	G. M.
1	11	1. 39	15	1. 41	53	16.17	22	17.52.15	2. 46	40	0. 47	56	22.18	4 49	8. 41
2	12	1. 37	15	1. 52	53	16.59	22	18.51.50	3. 32	42	2. 12	56	♈ 4. 26	4 59	8. 6
3 ⊙	13	1. 34	15	2. 3	54	17.42	23	19.51.26	4. 17	45	3. 40	57	16.45	— D — 4 55	7. 2[illegible]
4	14	1. 31	15	2. 13	54	18.24	23	20.21. 4	5. 1	47	5. 11	57	29 15	4 36	6. 3[illegible]
5	15	1. 28	15	2. 24	54	19. 1	24	21.50.45	5. 44	50	6. 45	58 D	♉ 11.55	4 4	5. 54
6	16	1. 25	15	2. 35	54	19.43	24	22.50.28	6. 26	52	8. 22	58	24.45	3 19	5. 24
7	17	1. 21	15	2. 45	55	20.32	25	23.50.13	7. 7	54	10. 0	54	♊ 7. 46	2 22	5. 12
8	18	1. 18	15	2. 55	55	21.15	25	24.50. 0	7. 46	57	11.38	51	20.56	1 18	5. 17
9	19	1. 14	16	3. 6	55	21.58	26	25.49.49	8. 24	59	13.16	48	♋ 4. 18	0 8 S	5. 40
10 ⊙	20	1. 11	16	3. 16	55	22.41	27	26.49.41	9. 1	5 2	14.55	45	17.50	1 3	6. 17
11	21	1. 7	16	3. 26	56	23.24	27	27.49.35	9. 37	4	16.34	42	♌ 1 39	2 12	7. 0
12	22	1. 3	16	3. 36	56	24. 7	28	28.49.31	10.14	5	18.14	37	15.42	3 14	7. 39
13	23	0. 59	16	3. 46	56	24.50	28	29 49.29	10.50	5	19.55	31	♍ 0. 0	4 5	8. 10
14	24	0. 55	16	3. 55	57	25.34	29	♏ 0. 49.29	11.26	6	21.36	26	14.33	4 42	8. 21
15	25	0. 51	16	4. 5	57	26.17	29	1. 49.32	12. 1	6	23.18	21	29 14	4 59 D	8. 1[illegible]
16	26	0 47	16	4. 14	57	27. 0	30	2. 49.37	12.35	7	24.59	16	♎ 13.57	4 58	7. 36
17 ⊙	27	0. 43	16	4. 24	57	24.43	30	3. 49.44	13. 7	7	26 40	9	28 37	4 37	6. 46
18	28	0. 39	16	4. 33	58	28.27	31	4. 49.53	13.38	8	28.20	3 O-	♏ 12 57	3 58	5. 5[illegible]
19	29	0. 35	16	4. 42	58	29.10	32	5. 50. 3	14. 7	9	♏ 0. 0	57	26 58	3 6	5. [illegible]
20	30	0. 30	16	4. 51	58	29.53	32	6. 50.15	14.34	9	1. 40	51	♐ 10 35	2 4	4. 3[illegible]
21	31 No	0. 26	16	5. 0	58	♐ 0. 37	33	7. 50.29	14.59	9	3. 20	44	23 46	0 58 M	4. 27
22	1	0. 22	16	5. 9	59	1. 20	33	8. 50.45	15.21	6	4. 59	38	♑ 6. 33	0 10	4. 35
23	2	0. 17	16	5. 18	59	2. 4	34	9. 51.40	15.40	2 4	6 37	31	18 57	1 16	4. 58
24 ⊙	3	0. 13	16	5. 27	59 -1-	2. 48	34	10.51.25	15.58	59	8. 15	24	♒ 1. 5	2 17	5. 29
25	4	0. 9	17	5. 36	0	3. 32	35	11.51.47	16.14	56	9. 53	17	13. 0	3 10	6. 5[illegible]
26	5	0. 4	17	5. 44	0	4. 16	36	12.52.11	16.28	52	11.31	10	24.49	3 56	6. 39
27	6	♉ 29.59	17	5. 52	0	5. 0	36	13.52.36	16.40	49	13. 8	4 M	♓ 6. 37	4 31	7. 8
28	7	29.55	17	6. 0	0	5. 44	37	14.53. 3	16.49	45	14.45	2	18.29	4 55	7. 27
29	8	29.50	17	6. 8	1	6. 28	37	15.53.32	16.56	42	16.21	9	♈ 0. 30	5 5 D	7. 3[illegible]
30	9	29 45	17	6. 16	1	7. 12	38	16.54. 3	17. 1	38	17.57	15	12.43	5 3	7. 2[illegible]
31 ⊙	10	29.40	17	6. 24	1	7. 56	38	17.54.36	17. 4	35	19.33	22	25.10	4 46	6. [illegible]

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Orien.	♃ Oriēt.	♂ occid	☉	♀ Occid.	☿ Orien.		
1 *Octobr.*	⚹ 18.				△22	☍19	△♄☿14. SS ♃☿	11 *Octobr,*
2 Leodega.								12 Coloma.
3 *C16. p.Tr.*				☍ 6.28			⚹♀☿15	13 *F17. p.Tr.*
4 Francisc.		△ 6						14 Calixtus
5			☍14					15
6	☌12	□ 14.			☍ 13			16 Gallus
7						△4.		17
8		⚹22		△7.			Bq ☉♄	18 Lucas
9 Dionys.						□ 18	☽☊	19 Ptoleme.
10 *C.17.p.T.*	⚹23		△ 9	□ 16. 51				20 *F18.p.Tr.*
11 Burchar.					△14			21 Ursula
12			□15	⚹ 23.		⚹5		22
13	□1.	☌6			□18.			23 Severin.
14 Calixtus			⚹ 19				Vc.☉♄ ☽ Peri.	24 Salome
15 Hedvvig	△3				⚹ 22		Bq ♄☿	25 Crispin.
16 Gallus						☌20.		26 Amand.
17 *C18.p.Tr.*		⚹10		☌ 9.23			⚹☉♃16	27 *F19 p.Tr.*
18 Lucas							SS ♂☿	28 Sim. Jud.
19	☍6.	□14	☌4				Vc. ♄☿	29
20					☌7.		☍♄♂18.	30
21 Ursula		△ 21.				⚹ 20.	☽☋	31 Wolffga
22 Cordula				⚹5			⚹♃☿3	1 *Nov.* O.Sa.
23 Severin.	△22							2 O.Anima.
24 *C19.p.T.*			⚹4	□ 21. 28		□17		3 *F20.p.Tr.*
25 Crispin.					⚹ 7			4
26	□ 10.	☍ 22.	□ 20					5
27				△16	□20.	△15	☽ Apog.	6 Leonhar.
28 *Sim. Jud.*	⚹ 22.						☌☉☿5. □♃♂10.	7 Florentius
29			△12.			occid.	SS ♀☿	8
30					△ 8		SS ☉♀ Q♃☿	9 Theodor.
31 *C20.p.Tr*		△ 21					Q☉♃	10 *F21.p.Tr.*

Styl. Veteri	Stylo Novo	♄ Longit ♉ G. M.	Lat M D Z	♃ Longit ♍ G. M.	Lat S A I	♂ Longit ♐ G. M.	Lat M A O	☉ Longitudo ♏ G. M. S.	♀ Longit ♐ G. M.	Lat M D 4	☿ Longit. ♏ G. M.	La. M A O	☽ Longit. ♉ G. M.	Latit. M D G. M.	☊ Long. ♋ G. M.
1	11	29.35	17	6. 31	2	8. 40	39	18.55.11	17. 5 Ret.	31	21. 9	20	7. 54	4 15	6. 20
2	12	29 30	17	6. 38	2	9. 24	39	19.55.48	17. 4	23	22.44	34	20.52 —♊—	3 30	5. 32
3	13	29.25	17	6. 45	2	10. 9	40	20.56.27	17. 1	14	24.19	41	4 4	2 33	4. 44
4	14	29.20	17	6. 52	2	10.53	40	21.57. 8	16.55	5 3	25.53	47	17.29 —♋—	1 27	4. 5
5	15	29.15	17	6. 59	3	11.38	41	22.57.51	16.47	57	27.27	53	1. 3	0 15 S	3. 41
5	16	29.10	16	7. 6	3	12.23	41	23.58.35	16.36	48	29. 1 —♐—	59 —I—	14.45	0 59	3. 3
7 ☉	17	29. 5	16	7. 13	3	13. 7	42	24.59.20	16.22	39	0. 35	5	28 35 ♌	2 10	3. 5
8	18	28.59	16	7. 19	3	13.52	42	26.0. 6	16. 6	31	2. 9	10	12.31	3 14	4. 29
9	19	28.54	16	7. 26	3	14.37	42	27.0. 53	15.47	22	3. 42	16	26.32 ♍	4 8	5. 11
10	20	28.49	16	7. 32	3	15.22	43	28.1. 41	15.26	13	5. 15	21	10 39	4 47	5. 54
11	21	28.44	16	7. 38	3	16. 7	43	29.2. 31 ♐	15. 3	5 Z	6. 48	27	24.51 ♎	5 7 D	6. 28
12	22	28 39	16	7. 44	4	16.52	44	0. 3. 23	14.35	51	8. 21	32	9 6	5 10	6. 46
13	23	28.34	16	7. 50	4	17.37	44	1. 4. 17	14. 6	37	9. 54	36	23.19 ♏	4 52	6. 44
14 ☉	24	28.29	16	7. 56	4	18.22	45	2 5. 13	13.36	23	11.27	41	7. 28	4 24	6. 19
15	25	28.24	16	8. 1	4	19. 7	45	3. 6. 11	13. 5	8 1	13. 0	46	21.26 ♐	3 37	5. 18
16	26	28.19	15	8. 7	4	19.52	46	4. 7. 11	12.33	54	14.32	50	5. 9	2 29	4. 47
17	27	28.14	15	8. 12	5	20.38	46	5. 8. 11	12. 0	40	16. 4	54	18.34 ♑	1 20	3. 59
18	28	28. 9	15	8. 17	5	21.23	46	6. 9. 12	11.27	26	17.36	58 —2—	1. 38	0 9 —M—	3. 20
19	29	28. 4	15	8. 2[illegible]	5	22. 8	47	7. 10.13	10.54	12 0	19. 8	1	14.22	0 59	2. 51
20	30 De.	27.59	15	8. 27	5	22.53	47	8. 11.15	10.21	58	20.40	5	26 48 —♒—	2 5	2. 53
21	☉1	27.55	15	8. 31	5	23.39	48	9. 12.18	9. 49	44	22 11	8	8. 57	3 3	3. 4
22	2	27.50	15	8. 36	5	24.24	48	10.13.23	9. 16	29	23.42	10	20.55 —♓—	3 51	3. 2
23	3	27.45	15	8. 40	6	25.10	49	11.14.30	8. 42	14	25.13	12	2. 45	4 31	3. 5
24	4	27 41	15	8. 44	6	25.55	49	12.15.38	8. 7	0	26.44	13	14.34	4 58	4. 33
25	5	27.36	15	8. 48	6	26.40	50	13.16.47	7. 31	15	28.14	15	26 26 ♈	5 13	5. 8
26	6	27.31	14	8. 52	6	27.26	50	14.17.57	6. 53	30	29 44 —♑—	16	8. 26	5 14 —D—	5. 36
27	7	27.27	14	8. 55	6	28.11	50	15.19. 7	6. 17	25 1	1. 14	17 D	20.40 ♉	5 1	5. 55
[illegible]	☉8	27.23	14	8. 58	6	28.57	51	16.20.18	5. 44	0	2. 43	17	4. 10	4 33	5. 58
29	9	27.18	14	9. 1	7	29 43 ♑	51	17.21.29	5. 14	15	4. 11	16	16. 0	3 52	5. 4
30	10	27.14	14	9. 4	7	0. 28	52	18.22.41	4. 47	29	5. 38	15	29.10	2 57	5. 1

Stylo Veteri.	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Oriét.	♃ Orien.	♂ occid	☉	♀ occid.	☿ occi.		
1 *Nov.* O.Sa				☍226.				11 *Nov.* Mar.
2 Animar.	☌15.					☍4	♀ ſtat in ſſ.☉pla.	12
3 Theophil.		□5	☍11.		☍23			13
4								14 Frideric
5		✱10					☽☊	15 Leopold.
6 Leonhar				△17			☍♄☿2	16
7 *C 21.p.Tr.*	✱1					△4		17 *F 22.p.Tr.*
8			△2.		△6			18 Gelaſius
9 Theodo.	□4	☌18.		□0.53		□14	☽ Perig.	19 Eliſabeth
10	occid.		□8		□8		☍☉♄7 ☌♂♀1.	20
11 Martinus	△6.			✱7.		✱22	□♃☿14	21 Præſ.M.
12			✱12		✱9			22 Cæcilia
13								23 Clemens
14 *C 22.p.Tr.*		✱1						24 *F 23.p.Tr*
15 Leopold.	☍12			☌22.3			☌♀☿1	25 Cathar.
16		□5.			☌13	☌19		26 Conrad.
17			☌4					27
18 Gelaſius		△13					☽☋	28
19 Eliſabeth								29 Saturnin.
20	△2						□☉♃7	30 Andreas
21 *C 23.p Tr.*				✱0.	✱2		☌☉♀9.	1 *F 1. Advent*
22 Cæcilia	□14		✱7.		Oriét.	✱6.	☌♂☿22.	2 Candidus
23 Clemens		☍12		□18.51	□11.		□♃♀☽ Apog.	3
24							Vc.♄☿ Td♃☿ o	4 Barbara
25 Cathar.	✱2.		□0.		△21	□4	Td ♃♂	5
26 Conrad.				△12.			Vc. ♄♂	6 Nicolaus
27			△14			△21		7
28 *C 1. adv.*		△10					Bq ♄☿	8 *F 2. Adv.*
29 Saturn.	☌20.						SS ♀☿	9 Joachim.
30 Andreas		□17.						10

Styl. Veteri	Stylo Novo	♄ Longit. ♉ G. M.	Lat M. D Z	♃ Longit. ♍ G. M.	Lat S A I	♂ Longit ♑ G. M.	Lat M A O	☉ Longitudo ♐ G. M. S.	♀ Longit. ♐ G. M.	Lat S A I	☿ Longit ♑ G. M.	Lat M D Z	☽ Longit. ♊ G. M.	Latit. M D G. M.	☊ Long. ♋ G. M.
1	11	27.10	14	9. 7	7	1. 14	52	19.23.53	4. 22	44	7 4	14	12.40	1 52	4. 2[illegible]
2	12	27. 6	14	9. 9	7	2. 0	53	20.25. 7	3. 59	55 2.	8. 29	11	26.27	0 38	3. [illegible]
3	13	27. 2	14	9. 11	7	2. 46	53	21.26.22	3. 37	6	9. 53	7	♋ 10.29	S 0 39	2. [illegible]
4	14	26.57	13	9. 13	8	3. 33	53	22.27.38	3. 16	17	11.15	4	24 41	1 55	2. [illegible]
5 ☉	15	26.53	13	9. 15	8	4. 19	54	23.28.55	2. 56	28	12.35	0 I	♌ 8. 59	3. 5	2. [illegible]
6	16	26.49	13	9. 17	8	5. 5	54	24.30.12	2. 38	39	13.53	56	23.18	4. 3	2. 1[illegible]
7	17	26.45	13	9. 19	9	5. 51	54	25.31.29	2. 23	50 3	15. 8	49	♍ 7 34	4 46	2. 4[illegible]
8	18	26.41	12	9. 20	9	6. 37	54	26.32.46	2. 11	1	16.20	41	21 46	5 10	3. 2[illegible]
9	19	26.37	12	9. 21	9	7. 24	55	27.34. 3	2. 2	12	17 28	33	♎ 5. 50	5 17 D	4. [illegible]
10	20	26.33	12	9. 21	9	8. 10	55	28.35.21	1. 57	23	18.33	26	19 46	5 4	4. 4[illegible]
11	21	26.29	12	9. 22	10	8. 56	55	29.36.39	1. 55 Dir.	34	19.33	18	♏ 3. 34	4 34	5. [illegible]
12	22	26.25	11	9. 22 Ret	10	9. 43	56	♑ 0. 37.58	1. 55	40	20.26	5 O	17.13	3 49	5. 1[illegible]
13	23	26.22	11	9. 22	10	10.29	56	1. 39.17	1. 57	46	21.12	52	♐ 0. 41	2 51	5. [illegible]
14	24	26.18	11	9. 22	10	11.15	56	2. 40.36	2. 1	52	21.52	39	13.58	1 45	4. 2[illegible]
15	25	26.15	11	9. 22	11	12. 2	57	3. 41.55	2. 7	57 4	22.24	26	27. 1	0 36 M	3. [illegible]
16	26	26.11	11	9. 21	11	12.48	57	4. 43.15	2. 15	3	22.49	13 S	♑ 9 50	0 36	2. [illegible]
17	27	26. 8	10	9. 21	11	13.35	57	5. 44.35	2. 25	9	23. 3	4	22 25	1 43	2. 1[illegible]
18	28	26. 5	10	9. 20	11	14.21	57	6. 45.55	2. 37	15	23. 7 Ret.	22	♒ 4 45	2 45	1. 3[illegible]
19 ☉	29	26. 2	10	9. 19	12	15. 8	58	7. 47.15	2. 51	21	22 57	41	16 54	3 34	1. 21
20	30	25.59	10	9. 19	12	15.55	58	8. 48.35	3. 7	27	22.35	59 I	28 52	4 21	1. 19
21	31 Ia	25.56	9	9. 18	12	16.41	58	9. 49.55	3. 25	32	21.55	17	♓ 10 44	4 52	1. 31
22	1	25.53	9	9. 16	13	17.28	59	10.51.14	3. 48	34	20.55	34	22.34	5 12	1. 54
23	2	25.50	9	9. 15	13	18.14	59	11.52.33	4. 12	35	19.45	52 Z	♈ 4. 26	5 17 D	2. 26
24	3	25.48	9	9. 13	13	19. 1	59	12.53.52	4. 38	37	18.31	10	16.25	5 9	3. 2[illegible]
25	4	25.45	8	9. 12	13	19.48	59 I	13.55.11	5. 6	38	17.16	28	28 36	4 47	3. 36
26 ☉	5	25.43	8	9. 10	14	20.35	0	14.56.29	5. 36	39	16. 6	46	♉ 11. 4	4 11	4. [illegible]
27	6	25.41	8	9. 7	14	21.21	0	15.57.47	6. 7	41	14 52	52	23.53	3 22	4. 2[illegible]
28	7	25.39	8	9. 5	14	22. 8	0	16.59. 4	6. 40	42	13.36	58	♊ 5	2 21	4. 2[illegible]
29	8	25.37	7	9. 2	15	22.55	0	18.0. 21	7. 14	44	12.20	3 4	20 42	1 11 S	4. [illegible]
30	9	25.35	7	8. 59	15	23.42	1	19.1. 38	7. 49	45	11. 4	10	♋ 4. 42	0 6	3. 2[illegible]
31	0	25.33	7	8. 56	15	24.28	1	20.2. 55	8. [illegible]5	47	9. 50	16	19. 4	1 25	2. 31

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Oriét.	♂ Occid	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Decem.* Lo.				☍12,40				11 *Dec.* Damas.
2 Candidus		✱21	☍10			☍23	△♃☿12 ☽☊	12 Epimach.
3 Cassianus							SS♂♀ Bq♄♂	13 Lucia
4 Barbara	✱4				△'4			14 Nicasius
5 C 2. *Adv.*								15 *F 3. Adv.*
6 Nicolaus	□6		△21	△ 2	□15.		☽ Perig.	16
7		☌3				△14		17 Lazarus
8 Conc. Ma.	△8			□8. 48	✱17.		Vc.☉♄ Td☉♃	18 Christoph.
9 Joachim			□3			□22		19
10				✱16.			☿ Elong. Max.	20
11 Damasus		✱10	✱10				△♃♂13	21
12 C 3 *Adv.*	☍16.					✱6	(♀stati. in ss ☉	22 *F 4. Adv*
13 Lucia		□16			☌2		♃ statio. in △♂(	23
14							(Bq☉♄	24 Adam Eva
15		△23		☌13,31			☽☋ Eclipsis ☉	25 Nat. Dom.
16			☌ 6					26 Stephan.
17 Lazarus	△7				✱20	☌ 1		27 Joan. Ev.
18 Christop.							☉ in Perigæo	28
19 C 4. *adv.*	□ 18						☿station.	29 *F.*
20		☍ 21		✱22	□ 9		△☉♃ 11. ☽Apo.	30 David
21			✱13			✱21		31 Sylvester
22 Theodos.	✱ 7				△23			1 *Jan.* 1648.
23				□16,18			☌♂☿ 11.	[illegible]
24 Ad. Eva			□ 5.			□ 4		3
25 Nat. Do.		△ 20.						4 Telesph.
26 C. Steph.			△19	△8		△10.	☌☉☿ 12.	5 *E* Simeon
27 Joann.	☌3				☍23	oriét.		6 Epiphan.
28 Infant.		□3.						7
29							☽☋	8 Erhardus
30 David		✱7				☍11.		9
31 Sylvester	✱10.		☍ 9.	☍1.44			SS ♀☿	10 Paul. Ere.

Radices Mediorum motuum Planetarum ex Tabb. Rudolphinis excerptæ, & ad Meridianum Uraniburgicum meridiemq; Calendar. Januar. Anni Jul. 1647. spectantes, ex Tychonis Brahei observationibus ac hypothesibus.

	S.	°	′	″
Præcessio Æquinoctiorum à prima ♈ stella	0	28	16	6
Longitudo media ☉ ab Æquinoctio verno	9	20	46	40
Apogæum Solis	3	6	31	23
Longitudo media ☽	11	26	49	8
Apogæum Lunæ	10	1	30	22
Nodus Boreus Lunæ	3	1	32	20
Longitudo media ♄	1	21	13	58
Aphelium Saturni	8	26	55	37
Nodus Boreus Saturni	3	21	54	45
Longitudo ♃ media	3	27	24	9
Aphelium Jovis	6	7	28	12
Nodus Boreus Jovis	3	5	28	39
Longitudo media ♂	3	22	9	8
Aphelium Martis	4	29	51	14
Nodus Boreus Martis	1	17	15	0
Motus medius ♀	9	0	30	21
Aphelium ♀	10	2	14	12
Nodus Boreus Veneris	2	13	36	47
Motus medius ☿	2	2	57	46
Aphelium Mercurij	8	14	10	10
Nodus Boreus Mercurij	1	13	30	44

FINIS

Ephemeridis Anni Christi
1647.

EPHEMERIS
MOTUUM COELESTIUM AD ANNUM
Incarnationis VERBI juxta æram Dionysianam, sed quam Ecclesia in Occidente hodiè orditur

A NATIVITATE JESU CHRISTI
Domini Servatoris nostri

M. DC. XLVIII.

Numerant autem ad hunc annum

Orientis & Græcæ Ecclesiæ Christiani, à Conditu rerum	7156.
Judæi, Hebræi & Rabini recentiores, à conditu rerum	5408.
Abyssini & Ægyptij Christiani, ab Æra Dioclet. seu Martyrum	1364.
Sarraceni & Turcæ, ab Hegira seu fuga Muhammedis	1057.
Astronomi, à Nabonassaro annos Ægyptiacos 365 dierum	2396.
Ab obitu Alexandri Magni	1971.

Estq; annus Bisextilis ordinationis Julianæ 1692, Emendationis Gregorianæ 66, cujus character est Periodus Scaligerana 6361. ex quo prodeunt

Numerus Cycli Solis	5	Aureus Numerus seu Cycli Lunæ	15.
Indictio Romana	1	Epactæ	5
Ut & in Juliano.		*In Gregoriano.*	
Litera Dominicalis	B A.	Litera Dominicalis	F D.
Intervallum Hebd. 7. diei	1.	Intervallum Hebd. 8 dier.	4.

Hoc anno ingressus Solis in quatuor puncta Cardinalia ad Meridianum Vraniburgicum & tempus Astronomicum apparens accidet Stylo Iuliano: in Signum

♈ Die 9. Martij H. 9. M. 23.	♎ Die 12. Septemb. H. 3. M. 18.
♋ Die 10 Junij, H. 12, M. 40.	♑ Die 10. Decemb. H. 14. M. 58.

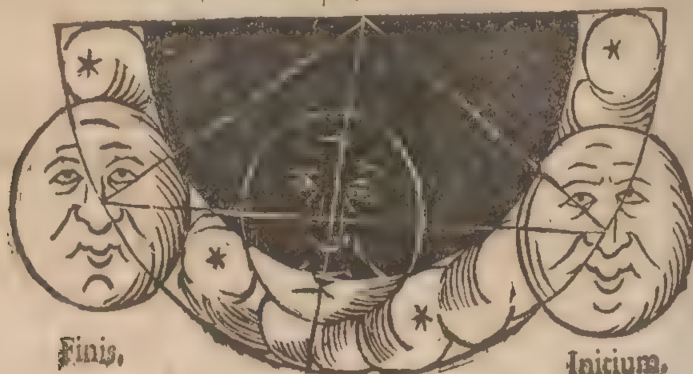
Iterum hoc anno Solennis Eclipsium Quadriga ☉ ac ☽ alternatim sibi respondentium terris exhibetur; etiamsi posteriorem duntaxat ☽æ defectionem nostra videat Europa: Calculum tamen omnium, more solito, à ☽ribus incipiendo, subjiciam.

I. Calculus Eclipsis ☽ antipodibus & Periœcis nostris conspicua.

Tempus æquale mediæ ☍☉☽ Uraniburgi accidet d. 26 Maji, S. V. 8 h. 52/16//. p.m. Intervall. inter ver. & med. ☍ subtr. 7 h. 55/52//. Ita ut tempus apparens & corr. veræ ☍ contingat Uranib 1. h. 1/29//. p.m. Medium a. tempus, quod saltem Ephemerides exprimunt, incidit in 0 h. 56/24//. p.m. Ad hoc tempus invenitur Æquat. Æquinoct. add. 9/59//. Anom. ☉ 5 Sex. 37 gr. 56/11//. Anom. ☽ coæq. 4 Sex. 16 gr. 46/13//. Argum. Latitud. ☽ 2 Sex. 50 gr. 35/12//. Latitud ☽ vera S. D. 49/0//, Locus ☉ in 15 gr. 14/41// ♊. Locus ☽ in 15 gr. 4/41// ♐. Sd ☽ simplex 16/30//. Sd Umbræ terræ corr. 45/9//. Aggreg. SSdd. 61/39//. Pars deficiens 12/39//. Hinc Digiti Ecliptici proveniunt 4 D. 36/0//. Qui igitur Uraniburgo per 10 h. 58/31// sunt Orientaliores, in Longitud. terræ 201 gr. 13/ ceu sunt populi, qui habitant in Anian Regno, in extrema parte Occidentali Mexicanæ, in Cuba Insula, in opido S. Trinitatis &c. imò omnes illi populi qui sunt nostri Antipodes & Periœci, (quorum etiam facta est mentio in prima Eclipsi ☽ ad A. C. 1641) in Meridiano notabunt. Extra Meridianum autem commodè videbitur à Longitud. terræ 111 gr. ad 291 grad. Latitud. ☽ ad initium Ecl. est S. A. 52/28//. ad fin. 45/32//.

II. Calculus Eclipsis ☽ nobis conspicua.

	Sexag. & dies.	Grad. & hor.	/	//		Sexag. & dies	Grad. & hor.	/	//
Media ☍ Luminar. accidet	19 Nov.	13	16	34	*Pars deficiens*			17	10
Intervall. in ver. & med. ☍ add.		5	57	15	*Hinc emergunt Digiti Ecliptici*		9 D.	5	10
Tempus appar. vera ☍	19 Nov.	19	1	5	*Scrupula casus*			50	14
Quo tempore datur Anom. ☉	2	33	8	14	*Qua divisa per mot. hor. ☽ verũ*			23	44
Anom. ☽ coæquata	0	50	28	24	*Dant tempus incidentiæ*		1	46	17
Coæq. motus Latit. ☽	5	13	30	43	*Et totam durationem*		3	32	34
Latitudo ☽ vera M. D.			33	52	*Latitudo ☽ ad Eclips. initium*		M. D	38	39
Longitudo ☉ vera	4	8	45	25	*Latitudo ☽ ad Eclips. finem*		M. D	29	4
Longitudo ☽ vera	1	8	45	25	*Initium Ecl. in Merid. Uranib.*		17	34	18
Sd ☽ corr.			7	59	*Medium*		19	21	5
Sd Umb. limitata			43	9	*Finis*		21	7	22
Aggreg. SSdd.			6	8					



Medium & aliquod tempus recuperationis Luminis in hac Eclipsi Uraniburgi conspicietur: ☽ enim ad hor. 8 min. 24. ubi ☉ oritur, ibidem occidet. Illi verò in Meridiano hanc Eclipsin observabunt, qui sunt Uraniburgo Occidentaliores per 7 hor. 19/35//. sub Longitudine terræ 286 gr. 29/. quorum scilicet Meridianus transit sinum Californiæ, Mare del Zur, Septentrionales quasdam Americæ provincias, regnum Chili, Floridam Mexicanæ, civitatem Chague, Achusi Floridæ, Jucatan, Masian, Fondunam, Insulam de Cocos sub Æquatore, Panaman, & Limam Peru Australis.

I. Eclipsis ☉ fermè totalis, sed nobis inconspicuæ, calculus.

Mediæ ☌ Luminar. accidet Uranib. d. 10 Jun. S.V. 3 hor. 14/17//p.m. Intervall. intermed & veram ☌ add est 10 h. 14/14//. Tempus apparens veræ ☌ 13 h. 28/30// p.m. Quo tempore Anom. ☉ invenitur 5 Sex. 53 gr. 14/9//. Anom. ☽ coæq. 1 Sex. 19 gr. 49/44//. Longitudo Luminar in 0 gr 1/57// ♋. Latitudo ☽ vera S. A. 32/20//. Cum autem hæc ☌ nobis Ecliptica esse nequeat, eò quod Luminaria sint infra Horizontem, ideoq; nobis investiganda sunt ejusmodi loca, quæ Horizonte Uranib. sunt Orientaliora per 10 h 31/34// & ubi vera ac visa ☌ Luminar. circiter merid. in 90 Eclipticæ gr. concurrit. Hæc igitur loca subjecta sunt Longitudini 194 gr. 38/ & Latitud. Septentr. 57 gr. qualia sunt loca quæ adjacent freto di Anian, & regno Quiviræ, aliisq; regionibus nobis incognitis. Illic enim Luminaria sub ipsam meridiem 12 hor 0/4//. in 90 Eclipticæ gr. concurrent. Ad hoc tempus datur Altitudo Luminar. 56 gr. 31/. Parall. ☉ 1/38// ☽æ 34/3//. ☽æ à ☉ in A. 31/23//. Visa Latitudo ☽ M 0/3//. Sd ☉ 15/15// ☽æ 16/17//. Corr. Sd ☽ 13/44//. Aggreg. SSdd. 28/59//. Pars deficiens 28/56//. Hinc prodeunt Digiti Eclipt. 11 min. 23 sec. 1. Tempus durationis ferè ultra 2 horas & semissem excurrit. Si qui Cosmopolitæ eo locorum appulerint, & certi quid observaverint, omnia accuratiùs ex Tabb. erui & cum observatis conferri poterunt.

II. Eclipsis ☉ etiam ferè totalis calculus.

In altera Eclipsi ☉ evenit media Luminarium ☌ d. 4 Decemb. fer. 2. 7 h 38/36//. Intervall inter med. & veram ☌ subtr. est 9 h. 27/21//. Tempus apparens veræ ☌ 3 Dec. fer. 1. 22 h. 13/43//. Quo tempore Anom. ☉ est 2 Sex. 47 gr. 3/25 //. Anom ☽ coæquata 4 Sex. 3 gr. 18/16//. Arg. Latitud. ☽ 3. Sex 8 gr. 39/39//. Latitud ☽ A. 45/7//. Longitud. Luminar. in 23 gr. 9/28// ♐. Hæc a. ☌ nobis Ecliptica esse nequit ob nimis excrescentem Latitud. ☽ in A. & Aggregat. SSdd. Luminar. superantem Proinde hæc copula iis Ecliptica erit, qui sunt Uranib. Merid. Orientaliores per 1 hor 19/17//. & Longitudine terræ 56 gr. 34/ ac Latit A. 71 gr. Quo pertinent loca in Australi parte terra Magellanica incognita intra circul. poli Antarctici comprehẽsa: siquidem illic per 27/ante merid. vera ac visa ☌ Luminar. in 90 Eclipticæ gr concurrit, daturq; tunc Altitudo Luminar. 42 gr. 12/ Parall. ☉ 2/14// ☽æ 46/5//. ☽æ à ☉ in S vergens 43/51//. Latitudo ☽ visa A. 1/16//. Sd ☉ 15/29//. Sd ☽ simplex 16/43// corr. ob elevation. poli 71 gr. 12/38//. Aggreg. SSdd. 28/7//. Pars deficiens 26/51//. Prodeunt igitur 10 Digiti Eclipt. 24/17//. Duratio hujus Eclipsis duas hor. exsuperat. Sub Latitudine a 69 grad. A. & Longitudine 54 gr. 16/, ad huc major erit Eclipsis ☉, & ferè 12 Digitos exæquabit.

JANUA-

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Long.
		♉	M D Z	♍	S A I	♑	M A I	♑	♐	S A 4	♑	S D 3	♌	S A	♋
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	25.31	7	8. 53	15	25.15	1	21.4. 11	9. 3	48 D	8. 58	22	3. 42	2 38	1. 38
2 ☉	12	25.29	6	8. 50	16	26. 2	1	22.5. 24	9. 43	47	7. 59	16	18.29	3 42	0. 55
3	13	25.28	6	8. 46	16	26.49	2	23.6. 40	10.24	45	7. 16	11	♍ 1. 17	4 32	0. 3[illegible]
4	14	25.26	6	8. 42	16	27.36	2	24.7. 54	11. 6	44	6. 49	6	17.59	5 3	0. 3[illegible]
5	15	25.25	6	8. 38	16	28.23	2	25.9. 6	11.48	43	6. 39	I 2	♎ 2. 28	5 14 D	0. [illegible]
6	16	25.24	5	8. 33	16	29.10	2	26.10.18	12.32	41	6' 37 Di	55	16.40	5 6	1. 3[illegible]
7	17	25.23	5	8. 29	17	29 57	2	27.11.29	13.17	40	6. 37	46	♏ 0. 34	4 40	2. 1[illegible]
8	18	25.22	5	8. 24	17	♒ 0 44	2	28.12.40	14. 3	38	6. 44	36	14.12	3 58	2. [illegible]
9 ☉	19	25.21	4	8. 19	17	1. 31	2	29.13.49	14.50	37	6. 58	26	27.30	3 5	3. 26
10	20	25.20	4	8. 14	17	2. 28	2	♒ 0. 14.58	15.38	36	7. 19	17	♐ 10.35	2 2	3. 40
11	21	25 19	4	8. 9	17	3. 5	2	1. 16. 5	16.26	34	7. 47	7 1	23.27	0 54 M	3. 3[illegible]
12	22	25.19	4	8. 4	18	3. 52	2	2 17.12	17.15	31	8. 17	57	♑ 6 7	0 14	3. 1[illegible]
13	23	25.18	3	7. 59	18	4. 39	2	3. 18.19	18. 5	28	8. 53	46	18.37	1 22	2. 40
14	24	25.18	3	7. 53	18	5. 26	3	4. 19.25	18.56	25	9. 36	36	♒ 0. 57	2 25	1. 5[illegible]
15	25	25.18	3	7. 48	18	6. 13	3	5. 20.29	9.47	22	10.25	25	13. 8	3 20	1 [illegible]
16 ☉	26	25.18	2	7. 42	19	7. 0	3	6. 21.32	20.39	20	11 20	14	25 12	4 40	0. 30
17	27	25.17 ir.	2	7. 36	19	7. 47	3	7. 22.32	21.32	17	12.17	4 O	♓ 7. 9	4 39	0 1 ♊
18	28	25.17	2	7. 30	19	8. 34	3	8. 23.31	22.25	14	13.15	54	19. 2	5 1	29.41
19	29	25.18	2	7. 24	19	9. 21	3	9. 24.30	23.19	11	14.15	44	♈ 0. 52	5 10 D	29.44
20	30	25.18	1	7. 18	19	10. 9	3	10.25.27	24.14	8	15.17	34	12.47	5 6	29.5[illegible]
21	31 Fe.	25.19	1	7. 11	20	10.56	3	11.26.23	25. 9	5	16.22	24	24 49	4 48	♋ 0 24
22	1	25.19	1	7. 5	20	11.44	3	12.27.18	26. 5	1 3-	17.29	15	♉ 6 55	4 17	0. 5[illegible]
23	☉ 2	25.20	0	6. 58	20	12.31	4	13.28.11	27. 1	57	18.38	7 M	19.18	3 34	1. 3[illegible]
24	3	25.21	0	6. 51	20	13.19	4	14.29. 3	27.58	52	19.49	2	♊ 2. 1	2 39	2. 10
25	4	25.22	0	6. 45	20	14. 6	4	15.29.54	28.56	48	21. 3	11	15. 8	1 35	2. 3[illegible]
26	5	25.23	0	6. 38	21	14.54	4	16.30.43	29.54	44	22.20	20	28 41	0 24	2. [illegible]
27	6	25.24	1. 59	6. 31	21	15.41	4	17.31.31	♑ 0. 52	40	23.38	28	♋ 12.42	S. 0 52	2. 45
8	7	25 26	59	6. 24	21	16.29	4	18.32.17	1. 51	36	24.57	35	27.10	2 7	2. [illegible]
29	8	25.27	59	6. 17	21	17.16	4	19.33. 2	2. 50	32	26.16	42	♌ 12. 0	3 14	1. 24
30 ☉	9	25.29	58	6. 10	21	18. 4	4	20.33.45	3. 50	28	27.36	50	27. 5	4 9	0 2[illegible]
31	10	25.30	58	6. 3	22	18.51	4	21.34 26	4 50	24	28.57	57	♍ 12.15	4 46	♊ 29.5[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ Orien.	♂ occid	☉	♀ Oriét.	☿ Orié.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Januar.* 2 *B.* Abel	□ 11.				△ 11		△♄♂8 △♃☿2 (☽ Perig. (□♃♀5.	11 *Ianuarii* 12 *E 1.p Epi.*
3 4	△12.	☌ 9	△ 17	△ 11	□12	△6.		13 Hilarius 14 Felix
5 Simeon 6 Epiphan			□ 23	□ 17.42	✶16.	□7	△☉♄6	15 16 Marcell.
7 Isidorus 8 Erhardus	☍ 20	✶ 14				✶11		17 Anton. 18
9 *B 1.p.Epi.* 10		□ 20	✶8	✶3.	☌ 10			19 *E 2.p.Ep.* 20 Fab.&S.
11 Hyginus 12 Reinhol.		△ 4				☌ 4.	△♃☿15 ☽☋	21 Agnet. 22 Vincent.
13 Hilarius 14 Felix	△ 13		☌ 9.	☌ 7.14				23 24 Timoth.
15 16 *B 2.p.Epi*	□ 0				✶14		(Td ♄♂ Td☉♄ Vc.♃♂ ☽Apog.(	25 26 *E 3.p.Ep.*
17 18 Prisca	✶ 13	☍ 1	oriét		□7	✶ 11	Vc. ☉♂ 19 ☌☉♂ 19	27 28
19 20 Fab. Seb			✶ 18.	✶ 18.		□5.	☿ in max. digr. ((à☉	29 30 Adelgun.
21 Agnes 22 Vincent.		△ 0	□ 10	□ 11.40	△1	△ 22	Vc.♄♀. Td♃♀	31 1 *Februar.*
23 *B 3.p Ep.* 24	☌ 11.	□9	△22					2 *E 4.*Pu.M. 3 Blasius
25 Conv. P. 26 Polycar.		✶13.		△ 1	☍ 2		☽☊	4 5 Agatha
27 28	✶ 21					☍ 20	△♄☿9	6 Dorothea 7
29 30 *B. Septua.*	□ 21.	☌ 14	☍ 9	☍ 12.53	△ 11		☽ Perig.	8 9 *E. Septuag.*
31	△21						□♃☿	10 Scholast.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit	Lat	☽ Longit.	Latit.	Long.
		♉	M. D I	♍	S A I	♒	M D I	♒	♑	S 3	♒	M A I	♍	S A	♊
		G. M		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M	G. M	G. M
1	11	25 32	58	5. 56	22	19.39	4	22.35. 5	5. 51	20	0. 19	5	27.21	5 4	29.
2	12	25.3[illegible]	58	5. 48	22	20.26	4	23.35.43	6. 52	15	1. 43	10	♎ 12 13	5 0	28
3	13	25 36	57	5. 40	22	21.14	4	24.36.19	7. 53	10	3. 8	16	26 42	4 39	29.
4	14	25.38	57	5. 32	22	22. 1	4	25.36.53	8. 54	5	4. 34	22	♏ 10 46	3 59	29 4
5	15	25.40	57	5. 24	22	22.49	4	26.37.26	9. 56	1 2	6. 1	28	24 25	3 7	♋ 0.
6 ☾	16	25.4[illegible]	57	5. 16	22	23.36	4	27.37.57	10.58	56	7. 30	33	♐ 7. 40	2 7	1.
7	17	25.45	56	5. 8	22	24.24	4	28.38.25	12. 0	51	9 0	38	20 34	1 1	1.
8	18	25.47	56	5. 0	22	25.11	4	29.38.51	13. 3	46	10.30	42	♑ 3. 11	M 0 6	2.
9	19	25.50	56	4. 52	22	25.59	4	♓ 0. 39.16	14. 6	42	12. 1	46	15 35	1 11	2.
10	20	25 53	56	4. 44	22	26.46	3	1. 39.40	15.10	37	13.33	51	27 49	2 13	1.
11	21	25 56	55	4. 36	22	27.34	3	2. 40. 2	16.14	32	15. 6	55	♒ 9 55	3 6	1.
12	22	25.59	55	4. 28	22	28.21	3	3. 40.21	17.18	27	16.40	57	21.56	3 52	0
13 ☉	23	26. 2	55	4 20	23	29. 9	3	4. 40.38	18.22	22	18.15	Z. 0	♓ 3. 54	4 27	0 1.
14	24	26. 5	54	4. 12	23	29.56	3	5. 40.53	19.26	18	19.51	2	15.49	4 50	♊ 29.
15	25	26. 8	54	4. 4	23	♓ 0. 44	3	6. 41. 7	20.30	13	21.28	5	27 44	5 1	2[illegible]
16	26	26.11	54	3. 56	23	1. 31	3	7. 41.18	2[illegible].35	8	23. 6	7	♈ 9. 39	D 4 57	28
17	27	26.15	53	3. 48	23	2. 19	3	8. 41.28	22.40	3	24 45	8	21 36	4 41	28.
18	28	26.18	53	3. 40	23	3. 6	3	9. 41.36	23.45	1 58	26.25	8	♉ 3. 38	4 13	28.1
19	29 Ma	26.22	53	3. 32	23	3. 54	2	10.41.43	24.51	53	28. 6	9	15.48	3 34	28.
20 ☉	1	26.26	53	3. 25	23	4. 41	2	11.41.47	25.56	48	29 49	9	28 11	2 42	28.
21	2	26.30	52	3. 17	23	5. 28	2	12.41.49	27. 2	43	♓ 1. 33	L. 9	♊ 10.49	1 43	29
22	3	26.34	52	3. 10	23	6. 15	2	13.41.48	28. 8	38	3. 18	8	23.50	0 36	0 1
23	4	26.38	52	3. 2	23	7. 2	2	14.41.44	29.14	3[illegible]	5. 4	6	♋ 7 14	0 34	0. 4
24	5	26.42	52	2. 55	23	7. 49	2	15.41.38	♒ 0 21	29	6. 50	4	21. 5	1 45	1. 12
25	6	26.46	51	2. 48	23	8. 36	2	16.41.31	1. 27	24	8. 38	2	♌ 5. 25	2 51	1. 1
26	7	26.50	51	2. 41	23	9. 23	2	17.41.22	2. 34	19	10.27	1	20 12	3 48	0.
27 ☾	8	26.54	51	2. 34	23	10.10	2	18.41.10	3. 41	14	12.17	I. 57	♍ 5 18	4 31	0
28	9	26.59	51	2. 27	23	10.57	2	19.40.57	4. 48	9	14. 9	53	20 36	4 55	29
29	10	27. 3	50	2. 20	23	11.44	1	20.40.42	5. 55	4	16. [illegible]	49	♎ 5. 53	4 57	28.

Stylo Veteri	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Occid.	♃ Oriét.	♂ oriét.	☉	♀ Orien.	☿ Orien.		
1 *Februarij*					□ 15	△ 5	♀ Lucif. lõg ab	1 *Februar.*
2 Pur. Mar.			△ 14.	△ 20			(△♃♀ 2 (est à ☉	12
3 Blasius		✱ 15			✱ 21	□ 12.		13
4			□ 21				□☉♄ 0. Vc ♃☿	14 Valent.
5 Agatha	☍ 2	□ 20		□ 4.18				15
6 *B. Sexages.*						✱ 0	Td ♄☿	16 *E Sexages.*
7			✱ 8	✱ 16.			☽☋	17
8		△ 3.			☌ 21		□♄♂ 5	18 Concor.
9 Apollon.	△ 10							19
10 Schol.								20
11						☌ 12		21
12	□ 8	Occid.	☌ 14				☍☉♃ 17	22
13 *B. Esto M*		☍ 1		☌ 1.43			SS♀☿ ☽ Apog.	23 *E. Esto M.*
14	✱ 21				✱ 8			24
15 Faustin								25 Matth.
16 Cinerum								26 Ciner.
17			✱ 23		□ 2.	✱ 7	□♄☿ 22	27
18 Concord		△ 0		✱ 13			☍♃♂ 11.	28 Roman.
19	☌ 20.				△ 19			29
20 *B. Invoc.*		□ 10	□ 13			□ 3	△♄♀ 11.	*Mart D In*
21				□ 3.46			☍♃☿ 22 Bq ♃♀	2 Simplic.
22 Cath. Pe.		✱ 16.	△ 23			△ 19.	☽☊ Q☉♄	3
23				△ 14				4 Adrian.
24	✱ 9.				☍ 17		☌♂☿ 1	5
25 Matthias								6 Fridelin.
26 Victor.	□ 10.	☌ 19.					Vc. ♃♀	7 Veronica
27 *B. Remin.*			☍ 8	☍ 22.28		☍ 12	☽ Perig.	8 *E. Reminis.*
28	△ 10						Q♄☿	9
29 Roman.					△ 0			10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Long
		♉	M D L	♍	S A I	♓	M D I	♓	♒	S D I	♓	M D I	♎	S. D.	♊
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. /	G. M
1	11	27. 8	50	2. 13	23	12.31	1	21.40.25	7. 3	0	17.56	45	20.59	4 38	27.4
2	12	27.13	50	2. 6	23	13.18	1	22.40. 5	8. 11	55	19.51	38	♏ 5. 43	4 1	27.2
3	13	27.17	50	1. 59	23	14. 5	1	23.39.43	9. 18	51	21.47	32	20. 0	3 11	27.0
4	14	27.22	50	1. 53	23	14.52	1	24.39.18	10.26	46	23.44	26	♐ 3. 48	2 9	27.5
5 ☉	15	27.27	49	1. 46	23	15.39	0	25.39.52	11.33	42	25.42	20	17. 8	1 4	28.
6	16	27.32	49	1. 39	23	16.26	0	26.38.24	12.41	37	27.41	13	♑ 0. 2	M 0. 4	29.1
7	17	27.37	49	1. 33	23	17.13	0	27.37.54	13.49	33	29.43	5 0	12.36	1 10	29.4
8	18	27.42	49	1. 26	23	18. 0	59	28.57.21	14.57	28	♈ 1. 48	57	24.53	2 10	♋ 0. 1
9	19	27.48	48	1. 20	22	18.47	59	29.36.46	16. 5	24	3. 56	49	♒ 6. 59	3. 5	0. 3
10	20	27.53	48	1. 14	22	19.33	59	♈ 0. 36. 9	17.13	19	6. 8	40	18.57	3 49	0. 31
11	21	27.59	48	1. 8	22	20.20	58	1. 35.30	18.22	15	8. 23	32	♓ 0. 51	4. 23	0 1
12 ☉	22	28. 4	48	1. 2	22	21. 7	58	2. 34.48	19.30	11	10.32	21	12.45	4 47	♊ 29.48
13	23	28.10	48	0. 57	22	21.54	58	3. 34. 3	20.39	7	12.24	10 S.	24.39	4 58	29.
14	24	28.15	47	0. 51	22	22.41	57	4. 33.16	21.48	3 M.	14. 3	2	♈ 6. 36	D 4 56	28.
15	25	28.21	47	0. 46	22	23.27	57	5. 32.28	22.57	1	15.48	13	18.37	4 39	2
16	26	28.27	47	0. 41	21	24.14	57	6. 31.38	24. 6	5	17.47	24	♉ 0. 41	4. 12	2
17	27	28.33	47	0. 36	21	25. 1	57	7. 30.45	25.15	9	19.46	36	12.53	3 31	26.4
18	28	28.39	47	0. 31	21	25.48	56	8. 29.49	26.24	13	21.44	48 I.	25.11	2 41	26.3
19 ☉	29	28.45	46	0. 26	21	26.34	56	9. 28.51	27.33	17	23.39	0	♊ 7. 39	1 42	26.4
20	30	28.51	46	0. 22	21	27.21	56	10.27.52	28.42	21	25.32	12	20.21	0 38	27.
21	31	28.57	46	0. 17	21	28. 8	55	11.26.51	29.51	25	27.21	24	♋ 3. 17	S. 0 30	27.41
22	Ap 1	29. 3	46	0. 13	21	28.54	55	12.25.48	♓ 1. 1	28	29. 5	34	16.36	1 39	28.2
23	2	29. 9	46	0. 9	20	29.41	55	13.24.43	2. 10	32	♉ 0. 43	44	♌ 0. 18	2 44	29. 1
24	3	29.16	45	0. 5	20	♈ 0. 28	54	14.23.36	3. 20	35	2. 15	54 Z.	14.25	3 40	29.31
25	4	29.22	45	0. 1	20	1. 14	54	15.22.26	4. 29	38	3. 43	4	28.57	4 25	29.41
26 ☉	5	29.28	45	♌ 29.57	20	2. 1	54	16.21.14	5. 39	41	5. 7	14	♍ 13.50	4 53	29.3
27	6	29.35	45	29.54	20	2. 47	53	17.19.59	6. 49	45	6. 26	20	28.57	D 5. 0	28.56
28	7	29.42	45	29.50	20	3. 33	53	18.18.43	7. 58	48	7. 39	26	♎ 14. 9	4 47	28. 4
29	8	29.48	44	29.47	20	4. 19	53	19.17.25	9. 8	51	8. 45	32	29. 1	4. 16	2. 8
30	9	29.55	44	29.44	20	5. 5	52	20.16. 4	10.18	54	9. 46	38	♏ 14.13	3 24	26.2
31	10	♊ 0. 2	44	29.41	20	5. 51	52	21.4. 41	11.28	58	10.44	44	28.2	2 21	25.5

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ occid	☉	♀ Oriēt	☿ Oriēt.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Martij*		✱ 18						11 *Martij*
2			△13.		□4.		Td ♄♀	12 Gregor.
3	☍ 13	□ 21		△ 7		△3.		13 Euphras.
4 Adrianus			□19		✱13	occid	☌☉☿ 23 Q♄♂	14
5 *A. Oculi*				□ 17.9		□19	✱♄☿ 12 ☽☊	15 *D. Oculi*
6		△ 3						16 Cyriacus
7 Perpetua			✱ 9.				✱☉♄ 0	17 Gertrud.
8	△5.			✱ 9		✱16.		18
9					☌ 20			19 Joseph.
10	□18						Vc.☉♃. Bq♃☿	20
11		☍0.						21 Benedict.
12 *A. Lætare*			☌18				☽ Apog.	22 *D. Lætare*
13	✱7			☌ 19.30				23
14						☌ 17.		24
15					✱ 9.			25 An. Mar.
16 Cyriacus		△ 0					SS ♂♀. Bq☉♃	26 Castulus
17 Gertrud								27
18	☌ 7	□ 10	✱1		□2.			28
19 *A. Iudica*				✱ 4.				29 *D. Iudica*
20		✱18.	□ 14		△ 17	✱11	□♄♀3. ☽☊	30
21 Benedict.				□ 15.53			SS♄☿ SS♂☿	31
22	✱22		△ 23				✱♄♂5 △♃☿ 0	1 *Aprilis* Hug.
23						□ 1	Vc. ♃♂	2 Mar. Æg.
24				△ 0				3
25 An. Mar	□ 1	☌ 2			☍ 10	△ 8.		4 Ambrosius
26 *A. Palma.*								5 *D. Palmar.*
27	△ 1		☍ 6				☽ Perig.	6
28				☍ 7.6			♀ in ✱☿ ferè (	7 Egesipp.
29 Eustach.		✱ 1			△17.	☍ 16.	(□♄♃ 2.	8
30 Guido							☿ in max. dist. (	9
31	☍3	□ 2	△13.				(à ☉ Bq ♃♂	10

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	Lat M D I	♃ Longit ♌ G. M.	Lat S A I	♂ Longit ♈ G. M.	Lat M D J	☉ Longitudo ♈ G. M. S	♀ Longit. ♓ G. M.	Lat M A I	☿ Longit. ♉ G. M.	La. S A Z	☽ Longit. ♐ G. M.	Latit S. D. G. M.	☊ Long. ♊ G.
1	11	0. 9	44	29.39	19	6. 37	52	22.13.16	12.38	1	11.36	50	12.21	1 13	25
2	☉12	0. 15	44	29.37	19	7. 23	51	23.11.50	13.48	3	12.23	50	25.48	0 2	26
3	13	0. 22	43	29.35	19	8. 9	51	24.10.21	14.59	6	13. 4	50	♑ 8. 48	M 1 6	26
4	14	0. 29	43	29.33	19	8. 55	50	25.8. 50	16. 9	8	13.37	50 D.	21.24	2 9	[illegible]
5	15	0. 36	43	29.31	19	9. 41	50	26.7. 18	17.19	11	14. 2	50	♒ 3. 42	3 6	[illegible]
6	16	0. 43	43	29.30	19	10.27	49	27.5. 44	18.30	13	14.16	50	15.46	3 52	[illegible]
7	17	0. 50	43	29.28	19	11.13	49	28.4. 8	19.40	15	14.23	44	27 41	4 27	[illegible]
8	18	0. 57	43	29.27	18	11.59	48	29.2. 30	20.51	18	14.29	37	♓ 9 33	4 52	[illegible]
9	☉19	1. 4	43	29.26	18	12.44	48	♉ 0. 0. 50	22. 1	20	14 34 Ret.	31	21 24	5 3 D	[illegible]
10	20	1. 11	43	29.25	18	13.30	48	0. 59. 7	23.12	23	14 33	2	♈ 3. 19	5 2	[illegible]
11	21	1. 18	42	29.25	18	14.16	47	1. 57.22	24.23	25	14.23	19	15.19	4 47	[illegible]
12	22	1. 25	42	29.24	18	15. 1	47	2 55.35	25.34	27	14. 8	6	27 27	4 19	[illegible]
13	23	1. 32	42	29 24	18	15.47	46	3. 53.46	26 45	28	13 48	I 54	♉ 9. 43	3 39	[illegible]
14	24	1. 39	42	29.24	18	16.33	46	4. 51.56	27.55	30	13.23	41	22 7	2 47	[illegible]
15	25	1. 47	42	Dir. 29 24	17	17.18	45	5. 50. 4	29. 6	31	12.54	29	♊ 4 41	1 47	[illegible]
16	☉26	1. 54	42	29.24	17	18. 4	45	6. 48.11	♈ 0. 17	33	12 21	16	17.24	0 41	[illegible]
17	27	2. 1	42	29.25	17	18.49	44	7. 46.16	1. 28	35	11.45		♋ 0. 19	0 28	[illegible]
18	28	2. 9	41	29.25	17	19.34	44	8. 44.19	2. 39	36	11. 7	0 43	13.28	1 [illegible]	[illegible]
19	29	2. 16	41	29.26	17	20.20	43	9. 42.20	3. 50	38	10.28	27	26 47	2 42	[illegible]
20	30	2. 24	41	29.27	17	21. 5	43	10.40.19	5. 1	39	9. 49	10	♌ 10.25	3 40	[illegible]
21	Mai 1	2. 31	41	29 28	16	21.50	42	11.38.17	6. 12	41	9. 10	M 6	24 22	4 26	27
22	2	2. 39	41	29.29	16	22.35	42	12.36.13	7. 23	42	8. 32	23	♍ 8 35	4 56	27.5
23	☉3	2. 46	41	29.31	16	23.21	41	13.34. 7	8. 35	42	7. 55	0	23.11	5 9 D	28.
24	4	2. 54	41	29.32	16	24. 6	41	14.32. 0	9. 46	43	7. 20	57	♎ 7. 55	5 9	28.
25	5	3. 2	41	29.34	16	24.51	40	15.29.51	10.57	44	6. 46	I 14	22.46	4 32	27.3
26	6	3. 9	40	29.36	16	25.36	40	16.27.41	12. 8	44	6. 14	30	♏ 7. 24	3 47	26.50
27	7.	3. 17	40	29.38	16	26.21	39	17.25.29	13.19	45	5. 46	44	22 11	2 47	25.5
28	8	3. 25	40	29.41	15	27. 6	39	18.23.16	14.31	46	5. 22	58	♐ 6. 29	1 36	25. 6
29	9	3. 33	40	29.43	15	27.51	38	19.21. 1	15.42	46	5. 2	Z 11	20 24	0 22	24.3
30	☉10	3. 41	40	29.45	15	28.35	38	20.18.45	16.53	47	4. 46	25	♑ 3 54	M 0. 51	24.1

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ Orien	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Aprilis*				△19	□0.			11 *Aprilis*
2 *A. Paſcha*		△7	□22.				☽☋	12 *D. Paſcha*
3					⚹13	△8.		13 Juſtin.
4 Ambroſ.	△18			□10.3				14 Tiburt.
5			⚹13			□21		15 Olymp.
6							Q♄♀	16
7 Egeſippus	□6.	☍3.		⚹1				17
8						⚹10	△☉♃10 ☽Apo.	18 Valerian.
9 *A. Quaſimo.*	⚹18.				☌19.			19 *D. Quaſim*
10			☌22				SS☉♄ ☿ſtatio.	20
11							SS ♂☿	21
12 Julius		△4		☌11.39				22
13 Juſtin.						☌7.		23 Georg.
14 Tiburt.	☌18.	□14			⚹12			24 Adelbert.
15 Olymp.							Vc. ♃♀	25 Marcus
16 *A. Miſ. Do.*		⚹22.	⚹1				☽☊	26 *D. Miſ Do.*
17				⚹14.	□4.	⚹20	⚹♄♀12. Td ♃☿	27 Anaſtaſ.
18 Valerian.			□11.					28 Vital.
19	⚹10				△13.	oriét.	☌☉☿11.	29
20			△19.	□1.34			Td ☉♃	30
21	□14	☌8.						1 *Maji*
22				△7		△0	SS♀☿	2
23 *A. Jubil.*	△15.						☽Perig.	3 *D. Jubilat.*
24 Adelber.					☍3			4 Florian.
25 Marcus		⚹11	☍3.			☍22		5 Gothard.
26				☍17.46				6 Joa. an. por.
27 Anaſtaſ.	☍19	□12.						7
28 Vitalis					△15			8 Stanislaus
29		△16.	△14				☽☋	9
30 *A. Canta.*						△1.		10 *D. Cantate*

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M	Lat M D I	♃ Longit. ♌ G. M	Lat S A I	♂ Longit. ♈ G. M	Lat M D O	☉ Longitudo ♉ G. M. S.	♀ Longit ♈ G. M.	Lat M A I	☿ Longit. ♉ G. M.	La. M A Z	☽ Longit. ♑ G. M	Latit. M. A. G. M.	☊ Long ♊ G. M
1	11	3. 48	40	29.48	15	29.20	37	21.16.27	18. 5	48	4. 37	38	16.59	1 59	[illegible]
2	12	3. 55	40	29.51	15	♉ 0. 5	37	22.14. 8	19.16	48	4. 31	47	29 39	3 0	[illegible]
3	13	4. 2	40	29.54	15	0. 49	36	23.11.47	20.28	48	4. 29	56	♒ 12. 0	3 51	[illegible]
4	14	4. 10	40	29.57	15	1. 34	36	24.9. 25	21.39	48 D	Dir. 4 32	4	24 6	4 30	[illegible]
5	15	4. 17	40	♍ 0. 1	14	2. 18	35	25.7. 1	22.51	48	4. 41	13	♓ 6 2	4 57	[illegible]
6	16	4. 25	39	0. 4	14	3. 3	34	26.4. 35	24.12	48	4. 53	22	17.52	5 10	[illegible]
7 ☉	17	4. 32	39	0. 8	14	3. 47	34	27.2. 9	25.14	47	5. 10	26	29 42	D 5. 12	[illegible]
8	18	4. 40	39	0. 12	14	4. 32	33	27.59.42	26.26	47	5. 31	29	♈ 11.37	4 59	[illegible]
9	19	4. 47	39	0. 16	14	5. 16	33	28.57.14	27.38	47	5. 56	33	23 40	4 33	[illegible]
10	20	4. 55	39	0. 21	14	6. 0	32	29.54.44	28.50	47	6. 26	37	♉ 5. 54	3 55	[illegible]
11	21	5. 3	39	0. 25	14	6. 45	31	♊ 0. 52.12	♉ 0 2	47	7. 0	41 D	18 20	3 4	[illegible]
12	22	5. 10	39	0. 30	13	7. 29	31	1. 49.39	1. 14	46	7. 38	41	♊ 0. 59	2 4	[illegible]
13	23	5. 18	39	0. 35	13	8. 13	30	2. 47. 6	2. 26	45	8. 20	40	13.52	0 57 S	[illegible]
14 ☉	24	5. 26	39	0. 40	13	8. 57	30	3. 44.32	3. 38	44	9. 6	39	26 57	0 14	[illegible]
15	25	5. 34	39	0. 45	13	9. 41	29	4. 41.57	4. 50	43	9. 56	38	♋ 10.14	1 27	[illegible]
16	26	5. 42	39	0. 50	13	10.25	28	5. 39 21	6. 2	42	10.50	37	23 41	2 34	[illegible]
17	27	5. 49	39	0. 56	13	11. 9	28	6. 36.44	7. 14	41	11.49	32	♌ 7. 20	3 35	[illegible]
18	28	5. 57	39	1. 1	12	11.53	27	7. 34. 6	8. 26	41	12.52	28	21. 8	4 25	[illegible]
19	29	6. 5	39	1. 7	12	12.37	26	8. 31.27	9. 38	40	13.58	23	♍ 5. 4	4 58	[illegible]
20	30	6. 13	38	1. 13	12	13.21	26	9. 28.47	10.50	39	15. 7	18	19 10	5 15	[illegible]
21 ☉	31	6. 21	38	1. 19	12	14. 5	25	10.26. 4	12. 2	38	16.18	14	♎ 3. 24	D 5 12	[illegible]
22	Iu. 1	6 29	38	1. 25	12	14 48	25	11.23.21	13.15	36	17.29	6 Z	17 45	4 50	[illegible]
23	2	6. 37	38	1. 31	12	15.32	24	12.20.37	14.27	35	18.40	59	♏ 2. 8	4 9	[illegible]
24	3	6. 45	38	1. 37	11	16.16	23	13.17.53	15.39	33	19.51	52	16 29	3 14	[illegible]
25	4	6. 53	38	1. 44	11	16.59	23	14.15. 8	16.51	32	21. 2	45	♐ 0. 43	2 6	[illegible]
26	5	7. 1	38	1. 51	11	17.42	22	15.12.23	18. 4	30	22.13	38	14.44	0 52	[illegible]
27	6	7. 9	38	1. 58	11	18.25	21	16.9. 36	19.16	29	23.33	28	28.27	M 0 23	[illegible]
28 ☉	7	7. 17	38	2. 5	11	19. 8	21	17.6. 48	20.28	27	25. 3	18	♑ 11 51	1 36	[illegible]
29	8	7. 25	38	2. 12	11	19.51	20	18.4. 0	21.41	26	26.43	8 I	24.53	2 41	[illegible]
30	9	7. 33	38	2. 19	10	20.34	20	19.1. 12	22.53	24	28.32	59	♒ 7. 36	3 38	[illegible]
31	10	7. 41	38	2. 26	10	21.17	19	19.58.24	24. 5	23	♊ 0. 22	49	19.59	4 22	[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ Occid	♂ oriét.	☉	♀ Oriét.	☿ Orié	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Maji* Ph. J. 2	△ 8.		□ 1	△ 9	□ 2	□ 9.	△♃♂ 16	11 *Maji* 12 Pancrat.
3 Invent. ✠ 4 Florian.	□ 10.	☍ 12.	✱ 14.	□ 0.7	✱ 18	✱ 18.	☿ ſtat. in ✱♄ ferè	13 Servat. 14
5 Gothard. 6 Jo. an. po.				✱ 18				15 16
7 *D. Voc. Iuc.* 8 Stanislaus	✱ 10						☽ Apog. SS ♄♂	17 *D. Voc. Iu.* 18 Potent.
9 10		△ 13	☌ 0		☌ 8.	☌ 1	□☉♃ 11.	19 Bernh. 20
11 Aſc. D. 12 Pancrat.	☌ 8	□ 23		☌ 1. 43			△♃♀ 8 ♂ à ☿ per 9 / diſta.	21 Aſc. Do. 22
13 Servat. 14 *D. Exaudi*		✱ 7	✱ 23			✱ 23.	☌♂☿ ferè ☽☊ SS ☉♀	23 Deſider. 24 *D. Exau.*
15 Sophia 16	Orien. ✱ 4			✱ 22.	✱ 9		(☌☉♄ 1. SS ♄♀ ☿ long. à ☉ diſta.(	25 Urban. 26 Beda
17 18		☌ 17	□ 7		□ 0	□ 8.	Td ♃☿	27 28
19 Bernhar. 20	□ 2		△ 13.	□ 6. 18	△ 9	△ 16.	Td ♃♂	29 30 Wigand.
21 *D. Pentec.* 22	△ 5	✱ 22		△ 12.			☽ Perig. Td ♃♀	31 *D. Pentec.* 1 *Iunii*. Nico.
23 Deſider. 24			☍ 23.		☍ 22.	☍ 6.		2 Marcell. 3 Eraſmus
25 Urbanus 26	☍ 10.	□ 2		☍ 0.56			☌♂♀ 1 ☽☋ Ecl. ☽	4 5 Bonifac.
27 28 *D. Trinit.*		△ 7	△ 14		△ 17.			6 7 *D. Trinitat.*
29 30 Wigan.	△ 0					△ 4		8 Medard. 9
31 Petron.			□ 3	△ 0	□ 9		Td ☉♃	10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit. ♊ G. M.	Lat M. D. I	♃ Longit. ♍ G. M.	Lat S. A. I	♂ Longit ♉ G. M.	Lat M. D. O	☉ Longitudo. ♊ G. M. S.	♀ Longit ♉ G. M.	Lat M. D. I.	☿ Longit ♊ G. M	Lat M. D. I.	☽ Longit. ♓ G. M.	Latit. M. A. G. M.	☊ Longit. ♊ G. M.
1	11	7. 49	38	2. 33	10	22. 0	18	20.55.36	25.18	21	2. 12	39	2. 7	4 53	23.1
2	12	7. 57	38	2. 40	10	22.43	18	21.52.47	26.31	20	4 2	28	14. 4	5 12	23.5
3	13	8. 5	38	2. 48	10	23.26	17	22.49.57	27.43	19	5: 52	16	25.55	D 5 17	24.
4	☉ 14	8. 13	38	2. 56	10	24. 9	16	23.47. 6	28.56	19	7. 41	5	♈ 7 45	5 8	25.
5	15	8. 20	38	3. 4	10	24.52	16	24.44.15	♊ 0. 8	18	9. 31	54	19 39	4 47	25.2
6	16	8. 28	38	3. 12	9	25.35	15	25.41.23	1. 21	17	11.21	43	♉ 1. 43	4 11	25.
7	17	8. 36	38	3. 20	9	26.18	14	26.38.31	2. 34	16	13.15	32	13.58	3 25	25.4
8	18	8. 43	38	3. 28	9	27. 1	14	27.35.38	3. 46	15	15 13	20	26.30	2 28	25.3
9	19	8. 51	38	3. 36	9	27.44	13	28.32.45	4. 59	15	17.14	9 S	♊ 9 21	1 22	25.4
10	20	8. 58	38	3. 45	9	28.27	12	29 29.52	6. 11	14	19.19	2	22 29	0 10	24.2
11	☉ 21	9. 6	38	3. 53	9	29. 9	12	♋ 0. 26.59	7. 24	13	21.29	13	♋ 5 56	S 1 4	23.25
12	22	9. 13	38	4. 2	9	29 52	11	1. 24. 6	8. 37	10	23.42	20	19.39	2 16	22.4
13	23	9. 21	38	4 11	9	♊ 0. 34	10	2. 21.13	9. 49	6	25.59	27	♌ 3. 35	3 20	22.
14	24	9. 28	38	4. 20	8	1. 16	9	3. 18.20	11. 2	2 O.	28.20	35	17.39	4 14	21.5
15	25	9. 35	38	4. 29	8	1. 59	9	4. 15.27	12.15	58	♋ 0. 44	42	♍ 1. 49	4 53	22.
16	26	9. 43	38	4. 38	8	2. 41	8	5. 12.33	13.28	55	3. 11	49	15 59	5 13	22.2
17	27	9. 50	38	4. 47	8	3. 23	7	6. 9. 39	14.40	51	5. 21	58 I	♎ 0 9	D 5 15	23.
18	☉ 28	9. 57	38	4. 56	8	4. 5	7	7. 6. 45	15.53	48	7. 25	7	14.15	4 58	23.5
19	29	10. 4	38	5. 6	8	4. 47	6	8. 3. 51	17. 6	44	9. 27	16	28 19	4 22	24.31
20	30	10.12	38	5. 15	8	5. 29	5	9. 0. 57	18.19	40	11.28	26	♏ 12 17	3 32	24.5
21	Iul. 1	10.19	38	5. 25	8	6. 11	5	9. 58. 2	19.32	37	13.28	35	26 10	2 29	25. 4
22	2	10.26	38	5. 35	8	6. 53	4	10.55. 8	20.44	34	15.34	37	♐ 9. 56	1 19	24.5
23	3	10.33	38	5. 45	7	7. 35	3	11.52.15	21.57	32	17.40	40	23.31	0 5 M	24.1
24	4	10.40	38	5. 55	7	8. 17	2	12.49.22	23.10	29	19.46	43	♑ 6. 54	1 9	23.31
25	☉ 5	10.47	38	6. 5	7	8. 58	2	13.46.29	24.23	27	21.52	45	20. 3	2 17	22.41
26	6	10.54	38	6. 15	7	9. 40	1	14.43.36	25.36	24	23.57	48	♒ 2. 55	3 17	21.5
27	7	11. 1	38	6. 25	7	10.22	0 S	15.40.44	26.49	22	25.59	48	15.34	4 5	21.2
28	8	11. 7	38	6. 36	7	11. 3	0	16.37.52	28. 2	19	27.58	49 .D.	27.56	4 41	21.1
29	9	11.14	38	6. 46	7	11.45	1	17.35. 0	29.15	17	29.54	49	♓ 10. 4	5 4	21.11
30	10	11.20	38	6. 57	7	12.26	2	18.32. 9	♋ 0 28	14	♌ 1. 48	48	22. 2	5 14	21.2

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ occid.	♂ oriēt.	☉	♀ Orien.	☿ Orien.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Junij*	□11.	☍1				□ 0	□♃☿5	11 *Iun.*
2 Marcell.			⚹18.	□ 17.13				12
3 Erasmus					⚹4		☽ Apog.	13
4 *A* 1. *p. Tr.*	⚹1					⚹ 0	☌♄☿7.	14 *D* 1. *p. Tr.*
5 Bonifac.				⚹ 11			SS ☉♂	15 Vitus
6		△3						16 Roland.
7							□♃♀17	17
8	☌ 23	□ 13	☌ 1		☌ 15			18
9 Medard.						☌ 17		19 Gervas.
10 Onophr		⚹20		☌13.28			☽ ☊ Ecl. ☉	20 Sylver.
11 *A* 2. *p. Tr.*							Q♃☿	21 *D* 2. *p. Tr.*
12			⚹18.				☌♄♀13.	22 X M. Mar.
13	⚹10				⚹ 11.			23
14 Valer.						⚹22		24 Joan. Ba.
15 Vitus	□ 13	☌ 4.	□ 0	⚹ 4.	□ 19		⚹☉♃7 SS♂☿	25
16 Roland							⚹♃☿5.	26
17	△ 16.		△6	□ 10. 59		□ 10.	☌☉☿14 ☽ Perig.	27 7 dorm.
18 *A* 3 *p. Tr.*					△3	Occid		28 *D* 3. *p. Tr.*
19 Gervas.		⚹12		△ 18		△22.	SS♄☿ □♃♂14	29 Pet. Paul.
20 Sylver.								30
21		□16	☍18.				SS ☉♄	1 *Iulii.* Theo.
22 X M. Ma.	☍1				☍ 21			2 Visit. Mar.
23		△22					☽☋	3
24 Jo. Bapt				☍ 11.38			Q ♃♀	4 Ulricus
25 *A* 4. *p. Tr.*						☍ 4		5 *D* 4 *p. Tr.*
26	△15.		△13.					6
27 7 dorm.								7
28		☍17.			△ 0		SS ♀☿. ☌♄♂3	8 Chilian.
29 Pet. Pau.	□ 2.		□ 3.	△ 16.				9 Cyrillus
30					□ 19	△ 23.	☽ Apog.	10 7 Fratres

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	♄ Lat M D I	♃ Longit. ♍ G. M.	♃ Lat S A I	♂ Longit ♊ G. M.	♂ Lat S A O	☉ Longitudo ♋ G. M. S	♀ Longit. ♋ G. M.	♀ Lat M D O	☿ Longit. ♌ G. M.	☿ La. S D I	☽ Longit. ♈ G. M.	☽ Latit. M. D. G. M.	☊ Long. ♊ G. M.
1	11	11.27	38	7. 7	6	13. 7	2	19.29.18	1. 42	12	3. 39	47	3. 54	5 9	21.5
2	☉12	11.34	38	7. 17	6	13.49	3	20.26.27	2. 55	9	5. 30	43	15.43	4 52	22.2
3	13	11.41	38	7. 28	6	14.31	4	21.23.36	4. 8	7	7. 19	38	27.35	4 22	23.1
4	14	11.47	38	7. 38	6	15.13	5	22.20.46	5. 22	4	9. 7	34	♉ 9. 37	3 40	23.5
5	15	11.54	38	4. 49	6	15.55	5	23.17.56	6. 35	2	10.54	29	21.52	2 47	24.
6	16	12. 0	38	8. 0	6	16.37	6	24.15. 7	7. 48	S 1	12.40	25	♊ 4. 25	1 46	24.1
7	17	12. 7	38	8. 11	6	17.19	7	25.12.19	9. 1	3	14.24	19	17.19	0 37	24.1
8	18	12.13	38	8. 22	6	18. 1	8	26.9. 32	10. 5	6	16. 5	13	♋ 0. 38	S 0 35	23.3
9	☉19	12.20	38	8. 33	6	18.43	9	27.6.45	11.28	8	17.44	7	14.19	1 47	23.
10	20	12.26	38	8. 44	6	19.24	9	28.3. 59	12 41	11	19.21	0	28.23	2 56	22.1
11	21	12.32	38	8. 55	6	20. 6	10	29.1. 13	13.55	13	20.55	54	♌ 12 45	3 53	21.2
12	22	12.39	39	9. 7	6	20.48	11	29.58.28	15. 8	16	22.28	46	27.18	4 37	20.4
13	23	12.45	39	9. 18	6	21.29	12	♌ 0. 55.44	16.22	18	23 59	38	♍ 11 56	5 3	20.
14	24	12.51	39	9. 29	6	22.11	13	1. 53. 1	17.35	20	25.29	30	26.29	D 5 9	20.
15	25	12.57	39	9. 41	6	22.53	13	2. 50.19	18.49	23	26.58	22	♎ 10 56	4 56	20.
16	☉26	13. 3	39	9. 52	5	23.33	14	3. 47.38	20. 2	25	28.25	14	25. 9	4. 25	21.
17	27	13. 9	39	10. 4	5	24.14	15	4. 44.58	21.16	27	29.50	5	♏ 9. 7	3 37	22.
18	28	13.15	39	10.16	5	24 55	16	5. 42.19	22.30	30	♍ 1 11	M 4	22.53	2 38	22.
19	29	13.20	39	10.27	5	25.36	17	6. 39 40	24.43	32	2. 33	14	♐ 6. 25	1 32	23.1
20	30	13.26	39	10 39	5	26.17	17	7. 37. 2	24 57	34	3. 51	23	19.46	0 21	23.3
21	31	13.32	39	10.51	5	26.58	18	8. 34.25	26 11	37	5. 7	33	♑ 2. 56	M 0 50	23.2
22	Au 1	13.37	39	11. 3	5	27.39	19	9. 31.50	27.24	39	6. 21	43	15.56	1 58	22.5
23	☉2	13.43	39	11.15	5	28.20	20	10.29.16	28.38	41	7. 33	53	28.45	2 57	22.2
24	3	13.48	39	11.27	5	29. 1	21	11.26.43	29.52	43	8. 43	I 4	♒ 11.23	3 48	21.3
25	4	13.53	39	11.39	5	29.42	21	12.24.11	♌ 1. 6	45	9. 51	15	23.51	4 26	20.4
26	5	13.59	39	11.51	5	♋ 0. 23	22	13.21.40	2. 19	46	10.56	24	♓ 6. 7	4 52	20.
27	6	14. 4	40	12. 3	5	1. 3	23	14.19.11	3. 33	48	11.59	35	18.13	5 4	19.4
28	7	14. 9	40	12.15	5	1. 44	24	15.16.43	4. 47	50	12.59	46	♈ 0. 10	D 5 3	19.5
29	8	14.14	40	12.28	5	2. 25	25	16.14.16	6. 1	52	13.56	57	12. 2	4 47	19.3
30	☉9	18.18	40	12.40	5	3. 5	25	17.11.50	7. 15	54	14.50	Z 7	23.51	4 21	19.
31	10	14.23	40	12.52	5	3. 46	26	18.9. 25	8. 29	56	15.41	18	♉ 5. 43	3 44	20.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ occid	♂ Oriét.	☉	♀ Oriét	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Jul.	✱15.		✱20					11 Iulij
2 A 5.p.Tr.				□10.23				12 D 5.p.Tr.
3		△20			✱14.		SS ♃☿	13 Margaret.
4 Ulricus						□1		14
5 Anshelm.				✱5			✱♄☿ 14.	15 Divis. Apo.
6	☌14	□ 6				✱15.	✱♃♀4.	16
7			☌0				☽☊	17
8 Chilian.		✱14			☌18.			18 Rosina
9 A 6.p.Tr.				☌23.25			SS ♄♀	19 D 6.p.Tr.
10 7 Fratr.							✱♂☿ 1.	20
11 Pius	✱0		✱13			☌15		21
12		☌19.						22 Mar. Mag.
13 Margar.	□ 1.		□16.		✱8		Q ♄☿	23 Apollin.
14				✱9.			☽Perig.	24 Christin.
15 Divis. Ap.	△3.		△21		□14.			25 Jacobus
16 A 7.p.Tr.				□15.59		✱6		26 D 7.p.Tr.
17 Alexius		✱1.			△23			27 Martha
18 Rosina						□16		28 Panthal.
19	☍12.	□7.		△0.				29 Beatrix
20			☍12				☽☋	30
21		△15				△4.		31 Germanus
22 Mar. Ma.							SS♂♀	1 Augusti V.P.
23 A 8.p.Tr.					☍0			2 D 8.p.Tr.
24 Christin	△5			☍0.8			S ☉♃0 Q♃♂	3
25 Jacobus			△12					4 Aristarch.
26 Anna	□16	☍11.				☍10.	✱☉♄17	5 Osvvald.
27 Martha							☌♃☿2 ☽ Apog.	6 Sixtus
28			□3.		△10.		☿long. à ☉ abiit	7
29	✱4.			△9			□♄☿8	8
30 A 9.p.Tr.			✱20				(Aspectus	9 D 9.p.Tr.
31 German.		△16			□7	△21.	Q♂☿ diuturn. (	10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	♄ Lat M D I	♃ Longit. ♍ G. M.	♃ Lat S A I	♂ Longit ♋ G. M.	♂ Lat S A O	☉ Longitudo. ♌ G. M. S	♀ Longit ♌ G. M.	♀ Lat S O	☿ Longit. ♍ G. M.	☿ La. M A Z	☽ Longit. ♉ G. M.	☽ Latit M. D. G. M.	☊ Long ♊ G. M
1	11	14.27	40	13. 5	5	4. 26	27	19.7. 1	9. 43	58	16.29	29	17.42	2 59	21. 2
2	12	14.31	40	13.17	5	5. 4	28	20.4. 39	10.57	1 0	17.15	41	29.54	1 58	21.4
3	13	14.36	40	13.30	5	5. 42	29	21.2. 18	12.11	1	17.57	54	—♊— 12.25	0 54 S	22.11
4	14	14.40	40	13.42	5	6. 20	29	21.59.59	13.25	3	18.34	3 6	25.17	0. 14	22.
5	15	14.44	40	13.55	5	6. 58	30	22.57.41	14.39	4	19. 7	18	—♋— 8. 37	1 24	22.4.
6	☉16	14.48	40	14. 7	5	7. 36	31	23.55.25	15.53	6	19.36	31	22 24	2 31	22.2
7	17	14.52	40	14.20	5	8. 14	32	24.53.10	17. 7	7	20. 1	38	—♌— 6. 38	3 31	21.5
8	18	14.56	40	14.32	5	8. 51	32	25.50.56	18.22	9	20.21	44	21.17	4 19	21.
9	19	14.59	40	14.45	4	9. 29	33	26.48.44	19.36	10	20.36	51	—♍— 6. 10	4 50	20.
10	20	15. 3	40	14.57	4	10. 6	34	27.46.34	20.50	11	20.45	58 4	21 12	5 1 D	19.2
11	21	15. 6	40	15.10	4	10.44	35	28.44.25	22. 5	13	20 49 Re.	5	—♎— 6. 11	4 51	18.5
12	22	15. 9	40	15.23	4	11.21	36	29 42. 18	23.19	14	20 46	10	20.58	4 23	18.4
13	☉23	15.13	40	15.35	4	11 58	36	—♍— 0. 40 13	24.33	15	20.38	15	—♏— 5. 28	3 37	19.
14	24	15.16	40	15.48	4	12.35	37	1. 38.10	25 48	16	20.24	20	19 35	2 40	19.4
15	25	15.19	40	16. 1	4	13.12	38	2 36. 9	27. 2	17	20. 4	24	—♐— 3. 20	1 34	20.
16	26	15.22	40	16.13	4	13.49	39	3. 34.10	28.16	17	19.39	29 D.	16.45	0 24	21. 6
17	27	15.25	40	16.26	4	14.26	39	4. 32.13	29 31	18	19. 6	23	29.52	—M— 0 44	21.5
18	28	15.28	40	16.39	4	15. 3	40	5. 30.16	♍ 0 45	19	18.25	18	♑ 12 45	1 50	21.55
19	29	15.30	40	16.52	4	15.40	41	6. 28.21	1. 59	20	17.36	12	25.26	2 48	21.5
20	☉30	15.33	40	17. 5	4	16.17	42	7. 26.27	3. 14	21	16.39	6	♒ 7. 55	3 38	21.40
21	31	15.35	40	17.18	4	16.53	43	8. 24.34	4. 28	22	15.34	1 3	20 19	4 18	21.
22	Se. 1	15.38	40	17.30	4	17.30	43	9. 22.43	5. 42	22	14 33	52	♓ 2 32	4 44	20.2
23	2	15.40	40	17.43	4	18. 6	44	10.20.55	6. 57	22	13.36	44	14.41	4 58 D	19.41
24	3	15.42	40	17.56	4	18.42	45	11.19. 9	8. 11	23	12.43	36	26 42	4 58	18.1
25	4	15.44	40	18. 9	4	19.18	46	12.17.25	9. 26	23	11.54	27	—♈— 8. 38	4 44	18.24
26	5	15.46	40	18.22	4	19.54	46	13.15.43	10.40	23	11. 9	19	20 30	4 18	18.
27	☉6	15.48	40	18.35	4	20.30	47	14.14. 3	11.55	23	10.15	1 2	—♉— 2. 20	3 42	18. 0
28	7	15.49	40	18.48	4	21. 5	48	15.12.25	13.10	23	9. 25	42	14.13	2 55	18.
29	8	15.51	40	19. 1	4	21.41	49	16.10.49	14.24	24	8. 39	24	26.13	2 0	18.3
30	9	15.52	40	19.14	4	22.17	50	17. 9.15	15.39	24	7. 57	5 1.	♊ 8. 23	1 0	19. 4
31	10	15.53	40	19.27	4	22 53	50	18 7. 42	16.54	24	7. 19	47	20.50	—S.— 0 6	19.42

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ orien	♃ occid	♂ Orien	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Augusti* 2				□ 3.1	✱ 23.			11 *Augusti* 12 Clara
3 4 Aristarch.	☌ 4	□ 2	☌ 21	✱ 17.		□ 11	☽☊	13 14 Eusebius
5 Osvvald. 6 *A* 10.*p.Tr.*		✱ 9.				✱ 19	✱♄♀2 SS♃♀ Q♂☿	15 Ass.Mar. 16 *D* 10.*p.Tr.*
7 8	✱ 13.			☌ 7.53	☌ 19			17 18 Helena
9 10 Laurent.	□ 14	☌ 14	✱ 5.			☌ 5.	SS♀☿ Q☉♄ □♄♃14. ☽Perig.	19 Sebald. 20
11 12 Clara	△ 14.		□ 8	✱ 15.	✱ 4		☿stat in SS♀pla.	21 22
13 *A* 11 *p. Tr.* 14		✱ 17.	△ 11.	□ 22.38		✱ 1.		23 *D* 11. *p.Tr.* 24 Barthol.
15 Assu.Ma. 16 Rochus	☍ 21.	□ 23			△ 23	□ 5	Q♄♀ ☽☋	25 Ludovic. 26
17 18 Helena		△ 7.	☍ 4.	△ 9.		△ 10	SS♄♂	27 Gebhard. 28 Augustin.
19 Sebaldus 20 *A* 12.*p.Tr.*	△ 15						☌♃☿15 □♄☿3. ✱♂☿5	29 Dec. Joha 30 *D* 12.*p.Tr*
21 22				☍ 14.42	☍ 7	☍ 22	✱♃♂0	31 Paulinus. 1 *Septemb.*
23 Zachæus 24 Barthol	□ 2	☍ 6	△ 7				☌☉☿19 ☽Apog.	2 Veronica 3
25 Ludovic 26	✱ 12.		□ 23			oriét.	☌♀☿5.	4 Theodo. 5
27 *A* 13.*p.Tr.* 28 Augusti.		△ 9.	✱ 14.	△ 2	△ 21.	△ 15	□☉♄ 20	6 *D* 13 *p.Tr.* 7 Regina
29 Deco.Jo. 30	☌ 14.	□ 21		□ 19 13	□ 15.	□ 23	□♄♀4 ☽☊	8 Nat.Mar. 9 Gorgon.
31 Paulinus								10

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	♄ Lat M D I	♃ Longit. ♍ G. M	♃ Lat S A I	♂ Longit. ♋ G. M	♂ Lat S A O	☉ Longitudo ♍ G M. S.	♀ Longit ♍ G. M.	♀ Lat S D I	☿ Longit. ♍ G. M.	☿ La M D I	☽ Longit. ♋ G. M	☽ Latit. S. A. G. M.	☊ Long ♊ G. M
1	11	15.54	40	19.40	4	23.28	51	19.6. 12	18. 8	24	7. 0	28	3. 38	1 12	20.1
2	12	15.57	40	19.53	4	24. 4	52	20.4. 44	19.22	24	6. 40	10 -O-	16 52	2 18	20.51
3 ☉	13	16. 0	40	20. 6	4	24.41	53	21.3. 18	20.37	23	6. 33	51	♌ 0. 35	3 17	21.
4	14	16. 3	40	20.19	4	25.18	54	22.1. 54	21.52	23	6 32 -Dir.-	33	14.48	4 5	21.
5	15	16. 6	41	20.32	5	25.55	55	23.0. 32	23. 6	22	6. 45	15 S	29 29	4 41	20.
6	16	16. 9	41	20.45	5	26.31	56	23.59.12	24.21	22	7. 11	4	♍ 14.31	4 57 -D-	19.4
7	17	16.12	41	20.58	5	27. 8	57	24.57.54	25.36	22	7. 44	17	29 45	4. 54	18.1
8	18	16.15	41	21.11	5	27.44	57	25.56.38	26.50	21	8. 24	31	♎ 15. 0	4 28	18.
9	19	16.18	41	21.24	5	28.20	58	26.55.24	28. 5	21	9. 12	45	♏ 0. 5	3 37	17.2
10 ☉	20	16.21	42	21.37	5	28.56	59 -I-	27.54.12	29.20	20	10. 8	58 -I-	14.52	2 45	17.15
11	21	16.24	42	21.50	5	29.32	0	28.53. 1	♎ 0 35	20	11.11	12	29.14	1 38	17.2
12	22	16 25	42	22. 3	5	♌ 0. 8	1	29.51.53	1. 49	19	12.21	19	♐ 13. 9	0 27 -M-	17.57
13	23	16.25	42	22.16	5	0. 43	2	♎ 0. 50.48	3. 4	18	13.37	26	26.38	0 44	18.36
14	24	16.26	43	22.29	5	1. 19	3	1. 49.45	4. 19	17	15. 0	32	♑ 9. 45	1 50	19.1
15	25	16.26	43	22.42	5	1. 55	4	2. 48.44	5. 33	16	16.29	39	22.33	2 50	19.1
16	26	16.26	43	22.54	5	2. 31	5	3. 47.46	6. 48	15	18. 3	46	♒ 5. 2	3. 40	20.14
17 ☉	27	16.27	43	23. 7	5	3. 6	6	4. 46.49	8. 3	14	19.39	48	17.20	4 18	20.2
18	28	16.27 -Ret-	44	23.20	5	3. 41	7	5. 45.54	9. 18	12	21.17	49	29 30	4 44	20.1
19	29	16.27	44	23.32	5	4. 16	8	6. 45. 1	10.33	11	22.57	51	♓ 11.34	4 59 D	19.5
20	30	16.27	44	23.45	5	4. 51	8	7. 44.10	11.48	10	24 38	52	23 33	4 58	19.21
21	Oc 1	16.26	44	23.58	5	5. 26	9	8. 43.20	13. 3	9	26.21	53 D	♈ 5. 29	4 46	18.3
22	2	16.26	44	24.11	5	6. 1	10	9. 42.33	14.17	8	28. 6	51	17.23	4 20	17.5
23	3	16.25	45	24 23	6	6. 36	11	10.41.50	15.32	6	29 51	49	29.16	3 43	17.1
24 ☉	4	16 25	45	24 36	6	7. 10	12	11.41.10	16.47	5	♎ 1. 36	47	♉ 11.11	2 57	16.4
25	5	16.24	45	24.49	6	7. 45	13	12.40.32	18. 2	3	3. 22	44	23. 9	2 2	16.25
26	6	16.23	45	25. 1	6	8. 19	14	13.39 56	19.17	1	5. 7	42	♊ 5. 13	1 1 -S-	16.2
27	7	16.22	46	25.14	6	8. 53	15	14.39.22	20.32	0 O	6. 52	37	17.26	0 3	16.4
28	8	16.21	46	25.26	6	9. 27	16	15.38.50	21.47	58	8. 38	32	29 54	1 9	17. 9
29	9	16.20	46	25.39	6	10. 1	17	16.38.20	23. 2	57	10.23	27	♋ 12 41	2 14	17.40
30	10	16.19	46	25.51	6	10.35	18	17.37.52	24.17	55	12. 9	22	25.49	3 12	18.2

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Orien.	♃ Oriēt.	♂ oriēt.	☉	♀ Oriēt.	☿ Orié.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Septemb.*						✱ 6.	☌☉♃ 18	11 *Septemb,*
2 Veronica		✱ 5.	☌ 13	✱ 6	✱ 5		☌♃♀ 12	12
3 *A 14. p. Tri.*								13 *D 14. p Tr.*
4 Theodoſ.	✱2				occid.		☌☉♀ 16	14
5						☌ 12		15 Nicodem.
6 Magnus	□2.	☌ 9.	✱21	☌ 15. 57	☌17			16 Euphem.
7 Regina							☽ Perig.	17 Lampert.
8 Nat, Mar.	△ 2		□ 21					18
9 Gorgon.						✱16.	✱♂♀ 7.	19
10 *A 15. p. Tr.*		✱11.		✱23			☿ in max. elōg. ☉	20 *D 15 p. Tr.*
11			△ 0.		✱2.	□ 22.		21 Matthæus
12	☍6	□16					✱☉♂ 16 ☽☋	22 Maurit.
13				□ 8.21	□ 13			23 Eſdra
14 Exalt. Cr.						△11	□♄☿23 Td♄♀	24
15 Nicodem.		△0	☍19	△ 21.				25 Cleophas
16 Euphem.	△22				△ 4		Td ☉♄	26 Cyprian.
17 *A 16. p. Tr.*								27 *D 16. p. Tr.*
18								28 Wencesl.
19	□10						☌♃☿ 9.	29 Michael
20 Fauſta		☍ 0.				☍ 2.		30 Hieron.
21 Matth.	✱22		△ 0	☍ 7. 7	☍ 17		☽ Apog.	1 *Octobr.*
22 Mauric.								2 Leodeg.
23 Eſdra			□15.				△♄♀17	3
24 *A 17. p. T*								4 *D 17. p. Tr.*
25 Cleoph.		△ 3.					Td ♄☿	5
26 Cypriaq.	☌ 22		✱ 6.	△ 18		△0	☽☊	6 Fides
27 Coſm D.		□15						7
28 Wenceſl.					△ 6.	□19	△☉♄16. ✱♂☿16	8
29 Michael				□ 7.49	□21			9 Dionyſ
30 Hieron.		✱0						10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M	Lat M D I	♃ Longit. ♍ G. M	Lat S A I	♂ Longit. ♌ G. M	Lat S A I	☉ Longitudo ♎ G. M. S.	♀ Longit ♎ G. M.	Lat S D O	☿ Longit. ♎ G. M.	La. S I	☽ Longit. ♌ G. M.	Latit. S A G M	☊ Long. ♊ G. M.
1 ☉	11	16.17	47	26. 4	6	11. 9	19	18.37.25	25.32	53	13.54	17	9. 24	4 2	19.
2	12	16.15	47	26.16	6	11.43	20	19.37. 0	26.47	51	15.38	12	23.27	4 40	19.2
3	13	16 13	47	26.29	6	12.17	21	20.36.38	28. 2	49	17.22	6	♍ 7. 57	5 0 D	19.3
4	14	16.11	47	26.41	6	12 51	22	21.36.19	29.17	47	19. 5	1 O	22.51	5 2	19.1
5	15	16. 9	47	26.53	7	13.24	23	22.36. 2	♏ 0 32	45	20.47	55	♎ 8. 2	4 43	18.
6	16	16. 7	47	27. 6	7	13.58	24	23.35.47	1. 47	43	22.29	50	23 18	4 3	17.4
7	17	16. 5	47	27.18	7	14.31	25	24.35.33	3. 2	41	24 10	43	♏ 8. 29	3 5	16.4
8 ☉	18	16. 3	47	27 30	7	15. 4	26	25.35.21	4. 17	39	25.51	36	23 24	1 57	16
9	19	16. 1	47	27.42	7	15.37	27	26.35.12	5. 32	37	27.32	30	♐ 7. 59	0 42 M	15.
10	20	15.59	47	27.54	7	16.10	28	27.35. 5	6. 47	35	29 13	23	22. 5	0 34	15.4
11	21	15.57	47	28. 6	7	16 43	29	28.35. 0	8. 2	33	♏ 0. 53	17	♑ 5. 44	1 45	16
12	22	15.54	47	28.18	7	17.16	30	29 34 57	9. 17	31	2. 32	10	18.56	2 49	16.
13	23	15 52	47	28.30	7	17.48	31	♏ 0. 34 57	10.32	29	4 10	4 M	♒ 1. 46	3 42	17.
14	24	15.49	47	28.42	8	18 21	32	1. 35. 0	11.47	26	5. 47	3	14.15	4 23	17.
15 ☉	25	15.46	47	28.54	8	18.53	33	2. 35. 5	13. 2	24	7. 23	10	26 30	4 51	18.
16	26	15.43	47	29. 6	8	19.25	35	3. 35.12	14.18	22	8. 57	16	♓ 8. 33	5 6 D	18.4
17	27	15.40	48	29.18	8	19.57	36	4. 35.21	15.33	19	10.31	23	20.30	5 8	18.
18	28	15.37	48	29.30	8	20.29	37	5. 35.21	16.48	17	12. 5	29	♈ 2. 24	4 55	18.38
19	29	15.34	48	29 42	8	21. 0	38	6. 35.43	18. 3	15	13.40	35	14.17	4 39	18.1
20	30	15.31	48	29 53	8	21.32	39	7. 35.57	19.18	12	15.14	42	26 11	3 54	17.
21	31 N.	15.27	48	♎ 0. 5	8	22 3	40	8. 36.12	20.33	10	16.48	48	♉ 8. 8	3 8	16.
22 ☉	1	15.24	48	0. 16	9	22.34	41	9. 36.29	21 48	8	18.22	54	20.10	2 11	16.
23	2	15.20	48	0. 28	9	23. 5	42	10.36.48	23. 3	5	19.56	I 1	♊ 2. 18	1 9	15.
24	3	15.17	48	0. 39	9	23.36	43	11.37.10	24.18	3	21.29	7	14 24	0 3	15.
25	4	15.13	48	0. 50	9	24. 6	44	12.37.34	25.33	0 M	23. 2	13	27 1	S 1 4	14.
26	5	15. 9	48	1. 1	9	24.36	45	13.38. 0	26 48	2	24.35	19	♋ 9. 39	2 11	14.
27	6	15. 5	48	1. 12	9	25. 6	46	14.38.27	28. 3	4	26. 6	24	22 29	3 9	15.
28	7	15. 1	48	1. 23	9	25.36	47	15.38.56	29 18	7	27.37	29	♌ 5. 39	4 2	15.
29 ☉	8	14.57	48	1. 34	9	26. 6	49	16.39.27	♐ 0. 33	9	29 8	35	19. 8	4 41	16.
30	9	14 53	48	1. 45	10	26 35	50	17.39.59	1. 48	12	♐ 0. 39	40	♍ 2. 59	5 6	17.1
31	10	14.49	48	1. 56	10	27. 5	51	18.40.33	3. 4	14	2. 10	45	17.13	5 13	17.4

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Orien.	♃ Oriét.	♂ oriét.	☉	♀ Occid.	☿ Orié.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 A Oct. 18 T	⚹12		☌3	⚹8.		⚹9	SS ♃♀	11 D. Oct. 18 T
2 Leodega.					⚹9		△♄☿ 8.	12 Colman.
3	□13							13
4 Francisc.		☌6						14 Calixt.
5	△13		⚹9			☌21.	☽ Perig.	15 Hedvvig
6 Fides				☌0.30	☌14.			16 Gallus
7			□10			Occi.	☌☉☿ 15	17
8 A 19.p.Tri.		⚹7					☽☊ (Q♂☿	18 D 19.p.Tr
9 Dionys.	☍13.		△13.				⚹♄♂ 16. SS ♃☿	19 Ptolem.
10 Gedeon		□10.		⚹10.		⚹14	SS☉♃	20
11 Burchar.					⚹4.		Q ☉♂	21 Ursula
12 Colman.		△18		□21.36			Bq ♄♀	22 Cordula
13					□18.	□5		23 Severin.
14 Calixt.	△3.		☍8.					24 Salome
15 A 10.p.Tr.				△13				25 D10 p Tr.
16 Gallus	□14.				△13	△1	Bq ♄☿	26 Amand
17		☍18					Vc ♄♀	27
18 Lucas								28 Sim. Jud.
19 Ptolem.	⚹2.		△14				☽ Apog.	29
20							Vc. ♄☿	30
21 Ursula				☍1. 1		☍20	Bq ☉♄	31 Wolffg.
22 A 21 p.Tr.		△20	□5		☍3.			1 D Nov. 21 T.
23 Severin.							□♂♀ 1	2 Animar.
24 Salome	☌2		⚹18				☽☋	3 Theophil.
25 Crispin.		□7.						4
26 Amand.				△8			□♂☿ 0.	5
27		⚹16			△11	△7.	Vc. ☉♄	6 Leonhar.
28 Sim. Jud.	⚹16.			□19.13				7 Florent.
29 A 22.p.T.			☌12.		□22	□19.	⚹♃♀ 23	8 D 22.p.Tr.
30	□20						Q♄♂ ⚹♃☿ 20	9 Theodor.
31 Wolffg.				⚹2.				10 Mart P.

Styl. Veteri	Stylo Novo	♄ Longit. ♊ G. M	♄ Lat M D I	♃ Longit. ♎ G. M	♃ Lat S A I	♂ Longit. ♌ G. M	♂ Lat S A I	☉ Longitudo ♏ G. M. S.	♀ Longit ♐ G. M.	♀ Lat M A O	☿ Longit. ♐ G. M.	☿ La M A I	☽ Longit ♎ G. M	☽ Latit. S. D. G. M.	☊ Long ♊ G. M
1	11	14.45	48	2. 7	10	27.34	52	19.41. 9	4. 19	17	3. 40	50	1. 49	5 0	18. 1
2	12	14.41	48	2. 18	10	28. 3	53	20.41.46	5. 34	19	5. 10	54	16 40	4 26	[illegible]
3	13	14 37	48	2. 28	10	28.32	55	21.42 26	6. 49	22	6. 39	58 Z	♏ 1. 40	3 35	17 20
4	14	14.32	48	2 39	10	29. 0	56	22.43. 8	8. 4	24	8. 8	2	16 40	2 29	16 29
5 ☉	15	14.28	48	2. 49	10	29.28	57	23.43.52	9. 19	26	9. 36	6	♐ 1. 35	1 13	15.34
6	16	14.24	48	2. 59	11	29.56	59	24.44.38	10.35	29	11. 3	10	16. 5	M 0 6	[illegible]
7	17	14.19	48	3. 9	11	♍ 0. 23	2 0	25.45.25	11.50	31	12.30	13	♑ 0. 17	1 24	14.16
8	18	14.15	48	3. 19	11	0. 50	1	26.46.13	13. 5	34	13.56	15	14. 4	2 34	14. 8
9	19	14.10	48	3. 29	11	1. 17	3	27.47. 2	14.20	36	15.22	18	27 24	3 29	14.19
10	20	14. 5	48	3. 39	11	1. 44	4	28.47.51	15.36	38	16.48	20	♒ 10 20	4 19	14.45
11	21	14. 1	48	3. 48	11	2. 11	5	29 48.41	16.51	41	18.13	23	22 54	4 53	15.19
12 ☉	22	13.56	48	3. 58	12	2. 37	7	♐ 0. 49.33	18. 6	43	19.37	23	♓ 5. 9	5 12	15.55
13	23	13.51	48	4. 7	12	3. 3	8	1. 50.27	19.21	45	20.59	23	17.12	D 5 16	16 30
14	24	13.46	48	4. 17	12	3. 29	10	2. 51.24	20.36	47	22.20	24	29. 6	5 7	16.56
15	25	13.41	48	4 26	12	3. 55	11	3. 52.23	21.51	50	23.40	24 D	♈ 10 56	4 45	17.12
16	26	13.36	48	4. 35	12	4. 20	12	4. 53.24	23. 7	52	24 59	24	22 47	4 9	17.14
17	27	13.31	48	4. 44	12	4. 45	14	5. 54.25	24.22	4	26.16	22	♉ 4. 42	3 24	17. 0
18	28	13.26	47	4. 53	13	5. 10	15	6. 55.26	25.37	56	27.31	19	16.43	2 30	16.32
19 ☉	29	13.21	47	5. 2	13	5. 34	16	7. 56.28	26.52	58	28.43	17	28 54	1 28	15.53
20	30	13.16	47	5. 11	13	5. 58	18	8. 57.31	28. 7	I 1	29 52	14	♊ 11.15	0 21	15. 6
21	De 1	13.11	47	5. 19	13	6. 22	19	9. 58.36	29 22	3	♑ 0. 59	11	23 48	0 48	14.22
22	2	13. 6	47	5. 28	13	6. 46	21	10.59.42	♑ 0 37	5	2. 2	4 I	♋ 6. 35	1 57	[illegible]
23	3	13. 1	47	5. 36	13	7. 9	22	12.0. 50	1. 52	6	3. 1	57	19.32	2.59	13.22
24	4	12.56	47	5. 45	14	7. 32	23	13.1. 59	3. 7	8	3. 55	49	♌ 2. 42	3 55	13.18
25	5	12.50	47	5. 53	14	7. 55	25	14.3. 9	4. 22	10	4. 44	42	16. 5	4 38	13.33
26	6	12 45	47	6. 1	14	8. 17	26	15.4. 20	5. 38	12	5. 29	34	29.41	5 6	14. 3
27	7	12.40	47	6. 9	14	8. 38	27	16.5. 29	6. 53	14	6. 5	22	♍ 13 29	5 17	14.35
28	8	12.35	47	6. 16	14	8. 59	29	17.6. 40	8. 8	16	6. 33	9	27 31	D 5 10	15.26
29	9	12.30	47	6. 24	14	9. 19	30	18.7. 52	9. 23	17	6. 52	56	♎ 11 46	4 43	16. 2
30	10	12.25	47	6. 31	15	9. 39	31	19.9. 4	10.38	19	7. 3	43	26.12	3 59	16.14

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Oriēt	♂ Oriēt.	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Novemb.*	△21	☌0.			✱5	✱3		11 *Novemb.*
2 Animar.			✱19				☽Perig.	12
3 Theophil.							☌♀☿15 Td♄♃	13
4			□20.	☌10.29				14 Fridericus
5 *A 23. p Tr.*	☍21	✱2			☌14	☌15	☽☋	15 *D 23. p. Tr.*
6 Leonhar.								16
7 Florent.		□5	△0					17
8							☍♄♀3 ☍♄☿3	18 Gelasius
9 Theodo.		△1.		✱1.			Q♃☿	19 Elisabeth
10	△7				✱11	✱14	Q♃♀	20
11 Mamert.			☍19	□14.46				21 Præs.M.
12 *A 24. p Tr.*	□17							22 *D 24. p Tr.*
13					□5	□8.	Td♂☿	23 Clemens
14 Frideric.		☍10.		△8			(Td♂♀	24
15 Leopold.	✱5.						□☉♂2 ✱☉♃16(	25 Catharin.
16					△1	△5	SS♃♂. ☽Apog.	26 Conrad.
17			△0					27
18 Gelasius								28
19 *A 25. p. Tr.*		△12	□13.	☍19 13			Ecl. ☽	29 *D 1. Adven.*
20	☌19						☽☊	30 Andreas
21 Præs.M.		□22			☍11.	☍15		1 *Decemb.*
22 Cæcilia			✱0				☿ in max. Elō. ☉	2 Candidus
23 Clemens	Occid						☍☉♄22	3
24	✱18	✱5.		△20				4 Barbara
25 Catharin.							☌♀☿17	5
26 *A 26. p. Tr.*	□22.		☌15.		△11.	△10.	□♃♀8	6 *D 2. advent.*
27				□4.48			□♃☿5	7
28		☌20			□20	□15.	△♂♀22	8 Conc. Mar.
29 Saturni.	△1			✱11			Q☉♃	9 Joachim.
30 Andreas			✱21			✱18	☽ Perig.	10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	Lat	☽ Longit.	Latit.	☊ Longit.
		♊	M. D I	♎	M A I	♍	S A Z	♐	♑	M I	♑	M D O	♏	S. D.	♊
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	12 20	47	6. 39	15	9. 59	33	20.10.17	11.53	21	7. 5 Ret.	30	10.45	2 59	16.2?
2	12	12.15	47	6. 46	15	10.19	35	21.11.31	13. 8	22	6. 54	11	25.20	1 48	16. 2?
3	☉13	12.10	46	6. 58	15	10.39	36	22.12.46	14.23	24	6. 31	-S- 8	♐ 9 51	0 29 M	15.21
4	14	12. 5	46	7. 0	16	10.58	38	23.14. 2	15.39	25	5. 55	27	24.11	0 49	14.27
5	15	12. 0	46	7. 7	16	11.17	40	24.15.19	16.54	26	5 7	46	♑ 8. 15	2 4	13.3?
6	16	11.55	46	7. 13	16	11.36	41	25.16.37	18. 9	27	4 5	1 5	22. 0	3 10	12.5?
7	17	11.50	46	7. 20	16	11.54	43	26.17.54	19.24	29	2. 56	23	♒ 5. 23	4 3	12.36
8	18	11.45	46	7. 26	17	12.12	45	27.19.11	20.39	30	1. 41	40	18 22	4 42	12.3?
9	19	11.41	45	7. 32	17	12.29	47	28.20.28	21.54	31	0. 19	28	♓ 1 0	5 7	12 49
10	☉20	11.36	45	7. 38	17	12.46	48	29 21.46	23. 9	33	♐ 28.51	2 16	13.19	5 16	13.16
11	21	11.31	45	7. 44	17	13. 2	50	♑ 0. 23. 4	24.24	34	27.17	34	25 23	—D— 5 17	13.5?
12	22	11.27	45	7. 50	18	13.18	52	1. 24.23	25.39	35	25.52	41	♈ 7. 16	4 52	14.2?
13	23	11.22	45	7. 55	18	13.33	54	2. 25.43	26.54	35	24.36	47	19. 5	4 22	14.5?
14	24	11.17	45	8. 1	18	13.48	55	3. 27. 3	28. 9	36	23.31	54	♉ 0. 54	3 41	15.24
15	25	11.13	44	8. 6	18	14. 2	57	4. 28.23	29.24	37	22.36	3- 1	12.48	2 49	15.3?
16	26	11. 9	44	8. 11	19	14.16	59	5. 29.44	♒ 0. 39	37	21.51	8	24.52	1 50	15.38
17	☉27	11. 4	44	8. 16	19	14.29	3 1	6. 31. 4	1. 53	38	21.16	5	♊ 7. 9	0 44 S	15.22
18	28	11. 0	44	8. 21	19	14.42	2	7. 32.24	3. 8	38	20.49	2	19.21	0 25	14.50
19	29	10.56	44	8. 26	20	14.55	4	8. 33.44	4. 23	39	20.33	2 58	♋ 2. 31	1 24	14. 6
20	30	10 52	43	8. 30	20	15. 7	6	9. 35. 3	5. 38	40	20.26	55	15.39	2 40	13 1?
21	31	10.48	43	8. 35	20	15.19	8	10.36.22	6. 52	40	Dir. 20.31	52	29. 3	3 37	12.31
22	Ia. 1	10.44	43	8. 39	20	15.30	9	11.37.41	8. 7	40	20.43	44	♌ 12 41	4 24	11.5?
23	2	10 40	43	8. 43	21	15.40	11	12.39. 0	9. 21	40	21. 2	36	26 30	4 57	11.4?
24	☉3	10.36	43	8. 47	21	15.49	13	13.40 19	10.35	D 40	21.28	28	♍ 10.27	5 12	11.5?
25	4	10.32	43	8. 51	21	15.57	15	14.41.38	11.50	40	22. 1	20	24.28	—D— 5 8	12.16
26	5	10.29	42	8. 54	22	16. 5	16	15.42.56	13. 4	40	22.42	12	♎ 8. 31	4 46	12.5?
27	6	10.25	42	8. 58	22	16.12	18	16.44.14	14.19	40	23.27	3	22.37	4 7	13.38
28	7	10.22	42	9. 0	22	16.18	20	17.45 32	15.33	39	24.15	1 54	♏ 6. 43	3 13	14.18
29	8	10.19	42	9. 3	22	16.24	22	18.46 49	16 47	39	25. 7	44	20.50	2 7	14 4?
30	9	10.16	42	9. 6	23	16.29	23	19.48. 5	18. 1	39	26. 3	35	♐ 4. 55	0. 54	14.5?
31	10	10.13	41	9. 8	23	16.34	25	20.49.21	19.15	39	27. 3	25	18.56	—M— 0. 22	14 41

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ Oriét	♂ Oriét.	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Decemb.* 2 Candidus		⚹ 19			⚹2		Vc.♄♀ ☿ ſtat.in □♃	11 *Decemb.* 12 Epimach.
3 *A 1. adv.* 4 Barbara	☍4	□22	□1.	☌ 22,11		☌ 19	☽☋ Ecl.☉	13 *D 3. Adv.* 14 Nicaſius
5 6 Nicolaus			△5.		☌16.		Bq ♄♀ Q♄♂ 20	15 16
7 8 Conc. Ma.	△12	△ 4		⚹ 18.		⚹ 23	Td♂☿	17 Lazarus 18 Chriſtoph.
9 Joachim. 10 *A 2. Adv.*	□20.		☍ 23		⚹22	oriét.	☌☉☿ 19	19 20 *D 4. Adv.*
11 Damaſus 12 Epimach.	⚹8.	☍ 1		□ 11. 3		□4.	Td ☉♂ SS ♀☿. Td♃♀	21 Thomas 22 Theod.
13 Lucia 14 Nicaſius				△ 5.	□ :8	△ 10		23 24 Adam Eva
15 16			△ 2.		△12.			25 *Nat Do.* 26 Stephan.
17 *A 3. Adv.* 18 Chriſtop.	☌ 7.	△2	□ 15			☍ 3	☽☋ □☉♃ 21	27 *D. Johan.* 28
19 20		□11	⚹ 23	☍ 11.59			Q♃☿ ⚹ ☿ ſtat. in Q♃☿	29 30 David
21 Thomas 22 Theod.	⚹20.	⚹17			☍ 15	△ 14	Vc. ☉♄ ⚹Q♃☿ △ ♃♀ :1	31 Sylveſter 1 *Ian.* 1649.
23 24 *A 4. Adv.*	□ 0		☌ 9	△6		□19.	Bq ♂♀ △♄♀ 0	2 3 *C.*
25 Nat. Do. 26 Stephan.	△3.	☌ 1		□ 13.13	□ 8.		△☉♂10. Bq☉♄	4 Teleſph. 5 Simeon
27 Joan. Ev. 28 Infant.			⚹ 16	⚹ 20	□ 16.	⚹1.	☽ Perig. Vc. ♂♀	6 Epiphan. 7 Julian.
29 30 David	☍9		□ 20				☽☋	8 Erhardus 9
[3]1 *A.* Sylveſt[er]		[illegible] 7			⚹ 0.	⚹ 5	☿ long. diſt à ☉	10 *C 1. Epiph.*

Radices mediorum motuum Planetarum ad Meridianum Urani-burgicum & ad meridiem Calendar. Januar. Anni Juliani & æræ Chriſtianæ 1648. pertinentes ex Tabb. Rudolphinis Keppleri, obſervationibus Nobiliſſimi Tychonis à Brahe innitentibus excerptæ.

	S.	°	′	″
Præceſſio Æquinoctiorum à prima ♈ ſtella	0	28	16	57
Longitudo media ☉ ab Æquinoctio verno	9	20	32	20
Apogæum Solis	3	6	32	25
Longitudo media ☽	4	6	12	10
Apogæum Lunæ	11	12	10	15
Nodus Aſcendens Lunæ	0	14	10	17
Longitudo ♄ Media ab Æquinoctio Verno	2	3	27	34
Aphelium Saturni	8	26	56	53
Nodus Boreus Saturni	3	21	55	57
Longitudo ♃ Media ab Æquinoctio Verno	4	27	44	41
Aphelium Jovis	6	7	28	59
Nodus Boreus Jovis	3	5	28	43
Longitudo ♂ media ab Æquinoctio Verno	10	3	26	16
Aphelium Martis	4	29	52	21
Nodus Boreus Martis	1	17	15	40
Motus medius Longitudinis ♀	4	15	17	57
Aphelium ♀	10	2	15	30
Nodus Boreus Veneris	2	13	37	34
Motus medius Longitudinis ☿	3	26	41	1
Aphelium Mercurij	8	14	11	55
Nodus Boreus Mercurij	1	13	32	9

FINIS

Ephemeridis ad Annum Chriſti biſextilem 1648.

EPHEMERIS
MOTUUM COELESTIUM AD ANNUM
Incarnationis VERBI juxta æram Dionysianam, sed quam Ecclesia Occidentis hodie nuncupat
A NATIVITATE JESU CHRISTI Domini nostri
M. DC. XLIX.

Numerabunt

Orientis & Scythiæ Christiani, à Conditu rerum	7157.
Judæi, Hebræi & Rabini recentiores, à conditu rerum	5409.
Abyssini & Ægyptij Christiani, ab Æra Dioclet. seu Martyrum	1365.
Sarraceni & Turcæ, ab Hegira seu fuga Muhammedis	1058.
Astronomi, à Nabonassaro annos Ægyptiacos 365 dier.	2397.
Ab obitu Alexandri Magni	1972.
Estq; primus à Bisextili, cujus character Periodus Scaligerana	6362.

Eruitur inde

In Juliano.		*In Gregoriano.*	
Cyclus ☉	6.	Cyclus ☉	6.
Cyclus ☽	16.	Cyclus ☽	16.
Indictio Romana	2.	Indictio Romana	2.
Litera Dominicalis	G.	Litera Dominicalis	C.
Intervallum	5. Hebd. 6. d.	Intervallum	7 Hebd. 2. d.

Ingredietur Sol 4. puncta Cardinalia secundum tempus Astronomicum apparens ad Meridianum Vraniburgicum, Stylo Veteri,

♈ Die 9 Martij H. 15. M. 11.	♎ Die 12. Septemb. H. 9. M. 6.
♋ Die 10 Junij H. 18. M. 27½.	♑ Die 10. Decemb. H. 20. M. 47.

Descriptio Eclipsium ad annum Christi 1649.

Hic annus Europæis terribilis erit ob duas Eclipses ☽æ totales, & unam ☉lis inibi conspicuas. Etsi enim Dn. Origanus ad hunc annum in suis Ephemeridibus hisce insuper duas ☉ Eclipses, quæ infra terram conspici debebant, addidit, tamen eæ, vel ad 30 Maji, vel ad 24 Novembris frustra expectantur: quandoquidem utrobique Latitudo ☽ visa minor est Aggregato SSdd Luminarium; eò quod sic caderet in Latitudinem 70 grad. & ultra: at limitata Sd. ☽ fit contractior, ita ut ☉ illic locorum à ☽a vix stringi & sensibiliter obscurari nequeat. Quamobrem Europæis duntaxat, supraq; nostram terram, hoc anno duæ Eclipses ☽æ, & una ☉lis evenient, quarum utraq; ☽æ & unica ☉ in nostro Horizonte notari poterunt. Conjungam igitur utriusq; ☽ totalis defectionis calculum & schemata: postmodum etiam ☉laris calculum typumque subjungam.

	IN PRIMA:				IN SECVNDA:			
	Sexag. & dies.	Grad. & hor.	/	//	Sexag. & dies	Grad. & hor.	/	//
Media Luminar. ☍ accidet p. m.	15 Maj	17	40	54	8 Nov.	22	5	1
Intervallum inter med. & veram Syzygiam	S.	2	8	42	S.	1	7	4
Tempus apparens vera ☍ Vraniburgi	15 Maj	15	14	23	8 Nov	9	7	9
Longitudo ☉ vera	2	5	5	22	3	17	20	49
Longitudo ☽ vera	4	5	5	22	0	57	20	49
Latitudo ☽ vera		S.D.	4	8	S.A.		4	1
Sd ☽ correcta			19	30			17	33
Penumbra terræ limitata ob variation. Umbra			46	37			42	3
Aggregatum SSdd.			66	7			60	3
Pars deficiens			61	59			55	43
Eruuntur igitur Digiti Ecliptici	D.	19	4	18	D.	19	0	44
Scrupula casus & moræ dimidia			65	59			60	[illegible]
Tempus Incidentiæ & dimidia duratio		1	59	11		2	10	[illegible]
Scrupula solius moræ dimidia			26	48			14	[illegible]
Tempus moræ dimidia			48	24			53	0
Item tota duratio		3	58	22		4	20	0
Initium Eclipsis in Meridiano Vraniburg.		13	25	12		17	26	[illegible]
Principium totalis obscurationis		14	35	59		18	43	[illegible]
Medium defectus seu vera ☍ tempore appar.		15	24	23		19	37	[illegible]
Principium emersionis ex totali Umbra		16	12	47		20	30	39
Finis Eclipsis tempore apparente		17	23	34		21	47	41
Latitudo ☽ ad Eclipsis Init.		S.D.	10	18	M.D.		1	12
Latitudo ☽ ad Eclipsis finem		M.A.	2	2	S.A.		10	7

Prioris Eclipsis ☽ totam durationem non animadvertet qui subjacent Meridiano Vraniburgico: ☽ n. totaliter adhuc obscurata cinereique coloris infra Horizontem sesubmerget hora pom. 15. min. 40. ☉le oriente. In Meridiano a. ☽ deficientem notabūt sanguineo colore tinctam & clarè rubentē, qui remoti sunt ab Vranib. versus Occidum 3 hor. 24/ 83//. in longitudine terræ 345 gr. 39/ ut sunt ii qui habitant ad fretum Davis, in terra



TerraCortereali, Terra nova, de Baccalaos, & regionib. Brasiliæ Toupinambaulti & Tabajar, ad Rio de la plata, quique tranfretent mare del Nort.

Posterioris Eclipsis finem itidem non videbit Vraniburg. cum vicinis suis, ☽aq; totaliter obvelata ☉lem Orientem fugiet, 20 h. min. 7. p. m. In *Meridiano* a. observabũt ☽am tempore deliquii, qui Occidentaliores sunt Vraniburgo 7. h. 37/ 19// & subjacent Longitud. 281 gr. 55/. ut sunt incolæ novæ Granadæ, novæ Hispaniæ, & si qui sunt ad sinum Mexicanum, item habitantes in urbe *Mexico* ac vicinis locis.



Eclipsis ☉ nobis conspicuæ calculus.

	Sexag. & dies.	Grad. & hor.	/	//
Media ☌ Luminar. accidet p. m.	25 Oct	ob. 3.	43	11
Intervallũ int verã & med. ☌ subtrah.		1	4	47
Tempus apparens vera ☌		2	48	15
Æquatio Æquin. add.			10	3
Longitudo Luminarium vera	3	42	29	40
Vera Latitudo ☽ S. D.		1	16	25
Ad tempus vera ☌ datur Altitudo Luminarium		10	9	0
Parall. ☉			2	57
Parall ☽			61	48
Parall. ☽ à ☉ in Austrum verg.			59	51
Distantia ☽ à puncto Occid.		65	56	0
Angulus Ecliptica cum Verticali		85	24	50
Parallax. Longitud ☽			4	42
Parallaxis Latitud. ☽			58	40
Ad semihor. post ☌ ver. datur Altitudo ☽		8	29	0
Parallaxis ☉			2	53
Parallaxis ☽			62	4
Parall ☽ à ☉			59	6
Parallaxis Longitud. ☽			9	8
Parall. Latitud. ☽			58	13
Semihorarius ☽ visus			12	13
Intervall. inter veram & visam ☌ add.			11	32

	Sexa. & dies	Grad. & hor.	/	//
Tempus apparens visa ☌		2	59	47
Parall. Longitud. ☽			6	24
Parall. Latitud. ☽			58	33
Latitudo ☽ vera S. D.		1	14	28
Visa Latitudo ☽ S. D.			15	55
Sd ☉			15	23
Sd ☽ correcta			13	46
Aggreg. SSdd.			29	9
Pars deficiens			13	14
Proveniunt igitur Digiti Ecli.		S. D.	9	41
Scrupula casus			24	25
Tempus Incident. (satis exacte)		1	0	0
Hinc tota duratio		2	0	
Initium Eclips. Vranib. p. m.		1	59	47
Medium seu maxima Eclips.		2	59	47
Finis		3	59	47



☞ Quò magis hæc Eclipsis in Septentr. porrigitur, eò major quoq; futura est: ob declivem verò ☉lis situm non nisi in planis editioribus locis commodè observari poterit.

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	♄ Lat M I	♃ Longit. ♎ G. M.	♃ Lat S A I	♂ Longit. ♍ G. M.	♂ Lat S A 3	☉ Longitudo ♑ G. M. S	♀ Longit ♒ G. M.	♀ Lat M D I	☿ Longit. ♐ G. M.	☿ La. S D I	☽ Longit. ♑ G. M.	☽ Latit M. A. G. M.	☊ Longit ♊ G. M.
1	11	10.10	41	9. 10	23	16.38	27	21.50.37	20.29	39	28. 7	16	2. 51	1 36	14. ?
2	12	10. 7	41	9. 12	24	16.43	29	22.51.51	21.43	38	29.14	7	16.35	2 43	13.2?
3	13	10. 4	41	9. 13	24	16.47	30	23.53. 4	22.57	37	♑ 0. 22	O. 58	♒ 0. 6	3 40	12.31
4	14	10. 1	41	9. 15	24	16.50	32	24.54.17	24.11	36	1. 32	49	13.20	4 23	11.4?
5	15	9. 59	40	9. 16	24	16.52	33	25.55.29	25.25	35	2. 43	39	26.16	4 52	11.1
6	16	9. 56	40	9. 18	25	16.53 Retr.	35	26.56.41	26.39	34	3. 56	30	♓ 8. 54	5 7	11. ?
7 ☉	17	9. 53	40	9. 19	25	16 53	36	27.57.52	27.53	33	5. 11	22	21.13	D 5 6	11. 1
8	18	9. 51	40	9. 19	25	16.52	38	28 59. 2	29. 7	32	6. 28	13	♈ 3. 18	4 50	11.1?
9	19	9. 48	39	9. 20	25	16.50	39	♒ 0. 0.11	♓ 0. 21	31	7. 46	S M	15.12	4 24	11.4?
10	20	9. 46	39	9. 20	26	16.47	41	1. 1. 19	1. 35	30	9. 6	3	27. 0	3 46	12.1?
11	21	9. 44	39	9. 21	26	16.43	43	2 2. 25	2. 49	30	10.27	12	♉ 8. 47	2 59	12.?
12	22	9. 42	39	9. 21 Retr.	26	16.38	44	3. 3. 31	4. 3	28	11.48	17	20 39	2 3	13.2?
13	23	9. 40	38	9. 21	26	16.32	46	4. 4. 36	5. 17	26	13.11	22	♊ 2. 42	1 1 S	13.51
14 ☉	24	9. 38	38	9. 20	27	16.26	47	5. 5. 40	6. 30	24	14 35	27	15. 1	0 5	14.?
15	25	9. 37	38	9. 20	27	16.19	49	6. 6. 43	7. 44	23	16. 0	31	27.39	1 11	14.1
16	26	9. 35	38	9. 19	27	16.11	50	7. 7. 45	8. 58	21	17.26	36	♋ 10 39	2 17	13.?0
17	27	9. 33	37	9. 18	28	16. 2	52	8. 8. 45	10.11	19	18.53	45	24 3	3 16	13.?
18	28	9. 32	37	9. 18	28	15.52	53	9. 9. 44	11 25	18	20.21	53	♌ 7. 48	4 6	12.1?
19	29	9. 31	37	9. 17	28	15.41	55	10.10.42	12.38	16	21.49	I [illegible]	21 54	4 41	11.?1
20	30	9. 30	37	9. 15	28	15.29	57	11.11.39	13.52	14	23.18	10	♍ 6 14	5 1	10.3?
21 ☉	31	9. 29	36	9. 14	29	15.17	58 4	12.12.34	15. 5	12	24.47	19	20 37	D 5. 0	10.1?
22	Fe. 1	9. 28	36	9. 12	29	15. 4	0	13.13.28	16.19	10	26.17	24	♎ 5. 5	4 42	10.1?
23	2	9. 27	36	9. 11	29	14 51	1	14.14.20	17.32	8	27.48	29	19 26	4 5	10.32
24	3	9. 26	36	9. 9	29	14.37	[illegible]	15.15.10	18.45	5	29.20	33	♏ 3. 39	3 14	11. 7
25	4	9. 25	35	9. 7	30	14.23	4	16.15.59	19.58	3	♒ 0. 53	38	17.42	2 10	11.50
26	5	9. 25	35	9. 4	30	14. 8	6	17.16.47	21.11	0	2. 26	43	♐ 1. 35	1 1	12.31
27	6	9. 24	35	9. 2	30	13.52	[illegible]	18.17.34	22.24	O. 58	4. 0	46	15.18	M 0 11	13.?
28 ☉	7	9. 24	35	9. 0	30	13.36	9	19.18.19	23.37	55	5. 35	49	29. 4	1 23	13.1?
29	8	9. 24 Dir.	34	8. 57	31	13.19	11	20.19. 3	24.50	53	7. 11	52	♑ 12 21	2 28	13.16
30	9	9. 25	34	8. 54	31	13. 2	12	21.19.45	26. 3	50	8. 48	55	25 40	3 25	12.54
31	10	9. 25	34	8. 51	31	12 44	14	22.20.25	27.16	48	10.25	58	♒ 8. 48	4 5	12.16

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ oriét.	♂ Orien	☉	♀ occid	☿ Oriét	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Circumcis:		□ 11						11 *Ianuar.*
2			△ 0	☌ 12.4				12
3	△ 18	△ 16.						13
4 Telesph.					☌ 22			14
5						✱ 13.		15
6 Epiph.	□ 2		☍ 15.					16
7 *G 1.p.Ep.*				✱ 14.			SS ☉♀	17 *C 2.p.Ep.*
8 Erhard.	✱ 13	☍ 12				□ 7		18
9							☽ Apog.	19
10				□ 8.57	✱ 10.		Vc. ♄☿ □ ♃☿ 4	20 Fab. Seb.
11			△ 16			△ 4	Bq ♃♀	21
12								22 Vincent.
13	☌ 14	△ 13		△ 3	□ 5.		☽ ☊	23
14 *G 2.p.Ep.*			□ 3				Bq ♄☿	24 *C 3.p.Ep.*
15		□ 21.			△ 20.		△ ♂☿ 5	25 *Conv.P.*
16			✱ 10			☍ 13.	□ ♄♀ 11. Vc. ♃♀	26 Polycarp.
17 Antonius							(♄. △ ☉♃ 3	27
18	✱ 3	✱ 2.		☍ 2.12			△ ♄♃ plat. △ ☉(	28
19								29
20 Fab. Seb.	□ 5.		☌ 15		☍ 14			30
21 *G. Sept.*						△ 7.	☍ ♂♀ 11	31 *C. Sept.*
22	△ 7.	☌ 8		△ 7			☽ Perig. Td ♂☿.	1 *Febr.*
23						□ 16	Vc. ☉♂	2 Purif. M.
24			✱ 18	□ 21.21				3
25					△ 4			4
26 Polycar.	☍ 14	✱ 13	□ 21.			✱ 2	☽ ☋	5
27				✱ 5.	□ 13.			6 Dorethea
28 *G. Sexag.*		□ 18						7 *C. Sexag.*
29			△ 2				Bq ♂☿. (Td ☉♄	8
30 Adelgu.					✱ 1		△ ♄☿ 9 △ ♃☿ 1.(	9 Apollonia
31	△ 1	△ 0				☌ 3.	Q ♄♀	10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Long.
		♊	M. D I	♎	S A I	♍	S A 4	♒	♓	M D O	♒	M A Z	♒	M. A.	♊
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M.	G. M.	G. M.
1	11	9 .26	34	8. 48	32	12.25	15 D	23.21. 3	28.29	46	12. 3	1	21 45	4 41	11 29
2	12	9. 26	33	8. 44	32	12. 4	15	24.21.40	29.42	42	13.42	2	♓ 4. 29	4 57	10.42
3	13	9. 27	33	8. 40	32	11.42	14	25.22.15	♈ 0. 54	39	15.22	3	16.59	D 4 58	10. 3
4 ☉	14	9. 27	33	8. 36	32	11.19	14	26.22.47	2. 7	36	17. 3	4	29 15	4 46	9. 36
5	15	9. 28	33	8. 32	32	10.56	13	27.23.18	3. 20	33	18.45	5	♈ 11.18	4 22	9. 24
6	16	9. 29	32	8. 27	32	10.32	12	28.23.47	4. 32	30	20.28	6 D.	23. 9	3 45	9. 28
7	17	9. 30	32	8. 22	33	10. 8	12	29.24.13	5. 45	27	22.11	5	♉ 4. 59	3 0	9. 4
8	18	9. 31	32	8. 17	33	9. 44	11	♓ 0. 24.38	6. 57	24	23.55	4	16.46	2 6	10.13
9	19	9. 32	32	8. 12	33	9. 20	11	1. 25. 2	8. 9	21	25.41	3	28.36	1 7	10.47
10	20	9. 33	31	8. 7	33	8. 56	10	2. 25.24	9. 21	18	27.28	2	♊ 10.37	0. 5	11.23
11 ☉	21	9. 34	31	8. 2	33	8. 34	9	3. 25.44	10.33	15	29.16	1 I	22.54	S 0. 59	11.57
12	22	9. 36	31	7. 57	33	8. 10	9	4. 26. 3	11.45	11	♓ 1. 5	58	♋ 5 31	2 2	12 21
13	23	9. 37	31	7. 51	34	7. 46	8	5. 26.19	12.56	8	2. 55	54	18 33	3 1	12.3
14	24	9. 39	30	7. 46	34	7. 22	8	6. 26 33	14. 8	4	4 46	50	♌ 2 3	3 52	12.22
15	25	9. 41	30	7. 40	34	6. 58	7	7. 26.45	15.20	1 S	6. 37	47	16 0	4 30	11.5
16	26	9. 43	30	7. 34	34	6. 34	6	8. 26.55	16 31	3	8. 29	43	♍ 0. 22	4 54	11. 6
17	27	9. 45	30	7. 28	34	6. 10	6	9. 27. 4	17.43	7	10.22	37	15. 3	D 4. 58	10.11
18 ☉	28	9. 47	29	7. 2[illegible]	34	5. 47	5	10.27.11	18.54	10	12.16	31	29 55	4 41	9. 21
19	Ma. 1	9. 49	29	7. 16	35	5. 24	5	11.27.16	20. 5	14	14.11	25	♎ 14.50	4 6	8. 47
20	2	9. 52	29	7. 10	35	5. 1	4	12.27.18	21.16	17	16. 7	19	29 33	3 16	8. 3
21	3	9 54	29	7. 4	35	4. 39	4	13.27.19	22.27	21	18 3	13	♏ 14. 5	2 12	8. 5
22	4	9. 57	28	6. 57	35	4. 17	3	14.27.17	23.38	25	20. 0	4	28.20	1 1	9. 21
23	5	10. 0	28	6. 50	35	3. 56	2	15.27.13	24.49	28	21.57	O. 55	♐ 12 16	M 0 12	10.
24	6	10. 3	28	6. 43	36	3. 35	2	16.27. 6	26. 0	32	23.54	47	25 54	1 23	10.43
25 ☉	7	10. 6	28	6. 36	36	3. 14	1	17.26.56	27.11	36	25.51	38	♑ 9 16	2 27	11 1
26	8	10. 9	27	6. 29	36	2. 54	1	18.26 44	28.22	40	27.47	29	22 25	3 23	11.41
27	9	10.12	27	6. 22	36	2. 34	0 3	19.26.31	29 33	44	29 43	18	♒ 5. 22	4 8	11.46
28	10	10.15	27	6. 15	36	2. 15	59	20.26.16	♉ 0 43	47	♈ 1. 38	7	18. 9	4 38	11.34

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ Oriét.	♂ oriét.	☉	♀ Occid.	☿ Orié	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Febr.*				☌ 3.17			Vc. ♂☿	11 *Februarij*
2 Purif. M.	□ 9.		☍ 14					12
3								13
4 *G. Esto M.*	* 20	☍ 18.			☌ 6.			14 *C. Esto M.*
5 Agatha						* 17.	☽ Apog.	15
6 Doroth.				* 11.			Td ♄☿	16
7 Cinerum			△ 10					17 Cinerum
8						□ 17	□♄♂ 12.	18
9 Apollonia	☌ 14	△ 19	□ 22.	□ 5,38	* 21		☌♃♀ 1 Vc ♂♀ Bq ☉♃	19
10							*♄♀ 4. ☽☊	20
11 *G. Invoc.*				△ 22		△ 14		21 *C. Invoc.*
12		□ 4.	* 5		□ 11.		SS ♃♂ Bq ♃☿	22 Cath. Pet.
13							Bq ♂♀	23
14 Valentin.	* 13.	* 10	occid		△ 23		☍ ☉♂ 15.	24 Matthias
15						Occi.	☌ ☉☿ 23. Vc. ☉♃ (	25
16	□ 15		☌ 10	☍ 14.11		☍ 15	(Vc. ♃☿. ☍ ♂ 23. □ ♄☿ 16	26
17							□☉♄ 7.	27
18 *G. Remin.*	△ 16	☌ 2						28 *C. Rem.*
19					☍ 9		☽ Perig.	1 *Martij*
20			* 9	△ 23				2
21						△ 7		3
22 Cath. Pe.	☍ 20	* 15	□ 10				☽☋	4 Adrianus
23				□ 6,3		□ 20		5
24 Matthias		□ 19	△ 13		△ 0			6 Frideric.
25 *G. Oculi*				* 16				7 *C. Oculi*
26					□ 12	* 11.	SS ♀☿ Q ♄☿	8
27	△ 9	△ 2						9
28							Vc. ♂☿	10

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit.	Lat	♂ Longit.	Lat	☉ Longitudo	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Long
		♊	M D I	♎	S A I	♍	S D 3	♓	♉	S A O	♈	S A O	♓	M A	♊
		G. M		G. M		G. M		G. M. S.	G. M.		G. M.		G. M	G. M.	G. M
1	11	10.19	27	6. 8	36	1. 56	59	21.25.59	1. 54	51	3. 32	3	0. 46	4 55	11. 6
2	12	10.22	26	6. 1	36	1. 36	56	22.25.39	3. 4	55	5. 25	16	13. 7	D 4 59	10.26
3	13	10.26	26	5. 54	36	1. 17	54	23.25.17	4. 14	59	7. 16	28	25 31	4 47	9. 40
4 ☉	14	10.29	26	5. 46	36	0. 57	52	24.24.53	5. 23	1 3	9 5	41	♈ 7. 39	4 22	8. 56
5	15	10 33	26	5. 39	36	0. 39	49	25.24.27	6. 33	7	10.52	54	19 37	3 48	8. 21
6	16	10.36	26	5. 32	36	0. 22	47	26.24. 0	7. 42	11	12.37	1 6	♉ 1. 29	3 1	7. 5[illegible]
7	17	10.40	25	5. 24	36	0 5	44	27.23.31	8. 51	15	14.15	18	13.18	2 9	7. 4[illegible]
8	18	10.44	25	5. 17	36	♌ 29.49	42	28.22.59	10. 0	18	15.47	30	25. 5	1 10	7. 5[illegible]
9	19	10.48	25	5. 9	36	29.34	40	29.22.25	11. 9	22	17.14	42	♊ 6. 56	0 7	8. 42
10	20	10.52	25	5. 1	36	29.20	37	♈ 0. 21.48	12.18	26	18.35	54	18.56	8 0 56	8. 45
11 ☉	21	10.56	25	4. 54	36	29. 6	35	1. 21. 9	13.27	30	19.49	2 5	♋ 1. 10	1 58	9. 2[illegible]
12	22	11. 0	24	4. 46	36	28 53	33	2. 20.28	14.35	34	20.59	15	13.44	2 56	9. 5[illegible]
13	23	11. 5	24	4. 39	36	28 41	30	3. 19.44	15.44	38	22. 2	24	26 43	3 47	10.3[illegible]
14	24	11. 9	24	4. 31	36	28.30	28	4. 18.58	16.52	41	22.58	33	♌ 10.10	4 26	10.[illegible]
15	25	11.14	24	4. 23	36	28.20	25	5. 18.10	18. 1	45	23.47	43	24 6	4 53	10.[illegible]
16	26	11.19	24	4. 16	36	28.10	23	6. 17.20	19. 9	49	24 29	52	♍ 8. 31	D 5 2	10.36
17	27	11 23	23	4. 8	36	28. 1	21	7. 16.27	20.17	53	25. 3	56	23.29	4 51	9. 5[illegible]
18 ☉	28	11.28	23	4. 1	36	27.53	18	8. 15.32	21.25	56 2	25.30	59	♎ 8. 24	4 20	9. [illegible]
19	29	11.33	23	3. 53	36	27.45	16	9. 14.35	22.32	0	25.49	3 3	23 34	3 30	8. 5[illegible]
20	30	11.38	23	3. 45	36	27.38	13	10.13.37	23.39	4	26. 1	7	♏ 8. 39	2 26	7. 24
21	31 Ap	11.43	23	3. 38	36	27.32	11	11.12.36	24.46	8	26 7	11	23 32	1 13	7. [illegible]
22	1	11.49	22	3. 30	36	27.27	9	12.11.34	25.53	11	Retr. 26. 7	D 3	♐ 8. 5	M 0 4	7. 1[illegible]
23	2	11.54	22	3. 23	36	27.23	6	13.10 30	26.59	14	25.59	2 55	22 14	1 19	7. 5[illegible]
24	3	11 59	22	3. 15	36	27 20	4	14.9. 23	28. 6	18	25.44	47	♑ 6 0	2 28	8. 13
25 ☉	4	12. 5	22	3. 7	36	27.17	1 2	15.8. 13	29 12	21	25.24	39	19.23	3 26	8. 5[illegible]
26	5	12.10	21	3. 0	36	27.15	59	16.7. 2	♊ 0. 18	24	24.55	31	♒ 2. 26	4 12	9. [illegible]
27	6	12.16	21	2. 52	36	27.14 Dir.	56	17.5. 48	1. 24	28	24. 3	23	15.12	4 45	9. [illegible]
28	7	12.22	21	2. 44	36	27.14	54	18.4. 32	2. 29	31	23.12	16	27 45	5 3	10.1[illegible]
29	8	12.28	21	2. 37	36	27.15	52	19.3. 15	3. 34	34	22.24	8	♓ 10. 7	D 5 6	10. [illegible]
30	9	12.34	21	2. 30	36	27.17	49	20.1. 55	4. 39	38	21.38	1	22.20	4 55	9. 5[illegible]
31	10	12 40	20	2. 23	36	27.19	47	21.0. 33	5. 44	41	20.54	I 53	♈ 4. 25	4 30	8. 1[illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ occid.	♃ Orien.	♂ occid	☉	♀ Occid	☿ Occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Albinus	□18.		☍2		✶2.		△♂♀0.	11 *Mart.*
2				☌19.37			☍♃☿ 7.	12 Gregor.
3		☍20.					Bq♂☿.	13
4 *G.Lætar.*	✶6					☌ 3.	✶♄☿19. Vc.♃♀	14 *C.Læt.*
5			△22				☽ Apog.	15
6 Frideric.					☌14			16
7								17 Gertrud.
8		△20.	□9	✶ 7			SS ♄♀ Q☉♄	18
9	☌8					✶ 23	Vc.☉♂. ☽☊(	19
10			✶20				(Bq♃♀0 Td♂♀	20
11 *G.Jud.*		□7		□ 0.23				21 *C.Jud.*
12 Cregor.					✶ 2	□14.		22
13		✶14		△12.			☿ Elō. max. à ☉	23
14	✶2	occid.			□12.	△ 23.	☍☉♃4. Bq☉♂	24
15			☌7					25 Ann. Ma.
16	□ 6				△ 19			26
17 Gertrud.		☌17		☍23.47				27
18 *G. Palm.*	△5							28 *C. Palm.*
19 Joseph.			✶6.			☍3.	☽ Perig.	29
20								30 Guido
21 Benedict.		✶16.	□ 6.		☍ 2		✶☉♄15. ☽ ☋ ☿	31
22	☍6.			△5.			station. in △♂ ferè. SS ♀ ☿	1 *April.*
23		□19	△9			△6.	□♂♀ 8	2
24				□15.46				3
25 *G. Pasch.*					△ 20	□10.		4 *C. Pasch.*
26	△ 18.	△1						5
27			☍23	✶4		✶ 16		6
28					□10		△♃♀5	7
29	□4.							8
30		☍20				Orien.	☌☉☿22.	9
31	✶ 17				✶3			10

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	Lat M D 1	♃ Longit. ♎ G. M	Lat S 1	♂ Longit. ♌ G. M	Lat S 2	☉ Longitudo ♈ G. M. S.	♀ Longit ♊ G. M.	Lat S A 2	☿ Longit. ♈ G. M	La S D 1	☽ Long t. ♈ G. M	Latit. M. D. G. M.	☊ Long ♊ G M
1 ☉	11	12.46	20	2. 16	36	27.22	45	21.59. 8	6. 49	44	20.11	46	16.23	3 57	8. 3[illegible]
2	12	12.52	20	2. 9	36	27.25	43	22.57.42	7. 53	47	19.34	30	28.15	3 11	7. [illegible]
3	13	12.58	2[illegible]	2. 3	36	27.28	40	23.56.14	8. 57	49	18.58	14 0	♉ 10. 6	2 17	7. 11
4	14	13. 4	20	1. 56	36	27.32	38	24.54.44	10. 1	52	18.24	57	21.57	1 18	6. [illegible]
5	15	13.10	20	1. 50	35	27.37	36	25.53.12	11. 4	55	17.51	41	♊ 3 48	0 14	6. [illegible]
6	16	13.16	19	1. 44	35	27.43	34	26.51.38	12. 7	57	17.20	25	15.44	S 0 50	6. 1
7	17	13.22	19	1. 38	35	27.49	32	27.50. 3	13.10	3 0	16.50	9 M	27 48	1 53	6. [illegible]
8 ☉	18	13.28	19	1. 32	35	27.56	29	28.48.25	14.12	2	16.21	7	♋ 10. 5	2 52	6. [illegible]
9	19	13.35	19	1. 26	35	28. 4	27	29.46.45	15.14	5	15.54	23	22 38	3 45	7. [illegible]
10	20	13 41	19	1. 20	34	28.12	25	♉ 0. 45. 3	16.16	8	15.28	39	♌ 5. 33	4 26	8. [illegible]
11	21	13.47	19	1. 14	34	28.21	23	1. 43.19	17.18	10	15. 4	56 1	18 53	4 57	8. [illegible]
12	22	13.54	18	1. 8	34	28 30	21	2. 41.33	18.19	12	14.52	9	♍ 2. 41	5 11	9. 11
13	23	14. 1	18	1. 2	34	28 40	19	3. 39.45	19.20	13	14.45	22	16 57	D 5 6	9. 2[illegible]
14	24	14 7	18	0. 57	34	28 51	16	4. 37.55	20.20	15	14 41	35	♎ 1 38	4 41	9. 1[illegible]
15 ☉	25	14.14	18	0. 51	34	29. 2	14	5. 36. 3	21.20	16	14 42	48	16 39	3 57	8. [illegible]
16	26	14 21	18	0 46	33	29.14	12	6. 34.10	22.19	18	14.48	1	♏ 1. 48	2 56	7. 4[illegible]
17	27	14.28	18	0. 40	33	29.27	10	7. 32.16	23.1[illegible]	19	15. 2	10	17. 4	1 42	6. 5[illegible]
18	28	14.35	18	0. 35	33	29.40	8	8. 30 20	24.16	21	15.18	19	♐ 2. 8	0 21	6. [illegible]
19	29	14.42	17	0. 31	33	29 54	5	9. 28.22	25.14	23	15.38	28	16 55	N 0 59	5. 3[illegible]
20	30 Ma	14.49	17	0. 26	33	♍ 0. 8	2	10.26.21	26.12	24	16. 2	37	♑ 1 19	2 15	5. 3[illegible]
21	1	14.56	17	0. 22	32	0. 23	0 I	11.24.18	27. 9	26	16.30	46	15.17	3 19	5. [illegible]
22 ☉	2	15. 3	17	0. 18	32	0. 38	59	12.22.14	28. 5	26	17. 2	51	28 49	4 10	6. [illegible]
23	3	15.10	17	0. 14	32	0. 54	57	13.20 9	29. 1	26	17.39	56 3	♒ 11 56	4 47	7. [illegible]
24	4	15.17	17	0. 10	32	1. 10	55	14.18. 2	29 56	26	18.21		24 41	5 9	7. 3[illegible]
25	5	15.24	16	0. 6	32	1. 27	52	15.15.54	♋ 0. 51	26	19. 7	6	♓ 7. 8	D 5 14	8. 11
26	6	15.31	16	0 3	32	1. 44	50	16.13.45	1. 45	26	19.57	11	19 22	5 7	8. 3[illegible]
27	7	15 38	16	♍ 29.59	31	2. 2	48	17.11.34	2. 39	26	20.49	12	♈ 1. 25	4 44	8. 3[illegible]
28	8	15.46	16	29 56	31	2. 20	46	18.9. 21	3. 32	26	21.44	13	13 21	4 10	8. 30
9	9	15.53	16	29.53	31	2. 39	44	19.7. 7	4. 25	27	22.42	4	25 13	3 26	8. [illegible]
30	10	16. 1	16	29.50	31	2 58	41	20.4. 51	5. 17	27	23.4[illegible]	[illegible]	♉ 7 3	2 32	[illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ occid.	♃ Occid	♂ occid	☉	♀ Occid	☿ orient	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *G. Quasi.* 2			△22.	☌12.20		☌8	☽ Apog.	11 *C. Quasim.* 12 Julius
3 4 Ambros.		△20	□11.					13 14 Tiburt.
5 6	☌19				☌16	✱3	☽ ☊	15 16
7 8 *G. Mis. D.*		□7.	✱0	✱0		□11.	☌♄♀5 △☉♂0 ((Td♃♀.	17 18 *C. M. D.*
9 10	✱15	✱.6		□14.23	✱21	△17.	✱♀☿11 Q♂♀ Vc.☉♃	19 20
11 12 Julius	□19		☌16.	△0				21 22
13 14 Tiburt	△20	☌23			□4	☍21	☿dir. in ✱♄ ferè	23 Georgius 24 Albert.
15 *G. Jubil.* 16			✱20	☍8.0	△8		☽ Perig. Bq☉♃	25 *C. Iubil.* 26
17 18	☍20.	✱21.	□20			△22	(☽☋ ♀ Elô. max à ☉(	27 28
19 20		□22.	△22	△17	☍15			29 Sibylla 30
21 22 *G Cant.*		△2.				□2	Td☉♂	*Maji.* 2 *C. Cant.*
23 Georgius 24 Albertus	△6		☍13	□2.51	△11	✱11.	□♃♀6	3 Inv. ✠ 4
25 Marcus 26	□16.	☍21		✱17.			S☉♄ ✱♂♀23.	5 6 Jo a. p.
27 28	✱5				□3	☌18.	Q♀☿ ferè.	7 8 Stanislaus
29 *G. Voc I.* 30			△15.		✱5.		☿ long. dist. à ☉ ☽ Apog.	9 *C. Voc. I.* 10

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	Lat M D 1	♃ Longit ♍ G. M.	Lat S D I	♂ Longit ♍ G. M.	Lat S D I	☉ Longitudo ♉ G. M. S	♀ Longit ♋ G. M.	Lat S D 3	☿ Longit ♈ G. M.	La. M A 3	☽ Longit ♉ G. M.	Latit M D G. M.	☊ Longit ♊ G. M.
1	11	16. 8	15	29.47	31	3. 18	39	21.2.33	6. 8	27	24.48	17	18.54	1 33	6. 49
2	12	16.15	15	29.45	30	3. 37	38	22.0. 14	6. 59	25	25.57	U 14	♊ 0. 48	0 28	6. 4?
3	13	16.22	15	29.42	30	3. 57	36	22.57.54	7. 49	24	27.10	12	12.46	S 0 38	5. 2?
4	14	16.29	15	29 40	30	4. 17	35	23.55.32	8. 38	22	28.26	9	24.52	1 43	4. 5?
5	15	16.37	15	29.38	30	4. 37	33	24.53. 8	9. 26	20	29.44	7	♋ 7. 6	2 44	4. 42
6 ☉	16	16 44	15	29.36	29	4. 57	31	25.50.42	10.13	19	♉ 1. 3	4	19 32	3 39	4. 44
7	17	16.51	15	29.34	29	5. 18	30	26.48.16	10.59	17	2. 23	2. 59	♌ 2. 12	4 24	5. 2
8	18	16.59	15	29.33	29	5. 40	28	27.45.49	11.44	15	3. 45	54	15. 9	4 57	5. 34
9	19	17. 6	15	29.31	29	6. 2	27	28.43.21	12.28	13	5. 9	49	28 25	5 15	6. 14
10	20	17.14	15	29.30	28	6. 24	25	29 40. 52	13.12	12	6. 35	44	♍ 12. 4	D 5 16	6. 5?
11	21	17.21	14	29 29	28	6. 47	23	♊ 0. 38.22	13.55	9	8. 4	39	26. 7	4 58	7. 29
12	22	17 28	14	29.28	28	7. 10	22	1. 35.50	14.37	5	9. 36	31	♎ 10 32	4 21	7. 48
13 ☉	23	17.35	14	29.28	28	7. 33	20	2 33. 17	15.18	1 2	11.11	23	25.17	3 26	7. 45
14	24	17.43	14	29.27	27	7. 57	19	3. 30.43	15.58	56	12.49	16	♏ 10.19	2 17	7. 18
15	25	17.50	14	29.27	27	8. 21	17	4. 28. 8	16.36	52	14.30	8	25 20	0 58	6. 30
16	26	17.58	14	29 27	27	8. 45	15	5. 25.32	17.13	48	16.14	0	♐ 10 21	M 0 25	5. 34
17	27	18. 6	14	29.27	27	9 10	14	6. 22.55	17.48	44	17.59	1 50	25 11	1 45	4. 43
18	28	18.13	14	29.27	26	9. 35	12	7. 20.17	18.22	39	19.46	41	♑ 9. 42	2 56	4. 9
19	29	18.21	14	29.28	26	10. 0	11	8. 17.38	18.55	35	21.35	31	23 49	3 55	3. 57
20 ☉	30	18.29	14	29.28	26	10.26	9	9. 14 58	19.27	31	23.26	21	♒ 7. 29	4 38	4. 6
21	31 Iun	18.37	13	29.29	26	10.52	7	10.12.15	19.58	27	25.20	12	20 43	5 5	4. 31
22	1	18.45	13	29.30	25	11.18	6	11.9. 33	20.27	19	27.16	1	♓ 3. 33	5 17	5. 6
23	2	18.53	13	29.31	25	11.44	4	12.6. 50	20.54	11	29.15	0 50	16. 0	D 5 12	5. 43
24	3	19. 1	13	29.33	25	12.11	3	13.4. 6	21.19	4	♊ 1. 17	39	28 11	4 53	6. 19
25	4	19. 9	13	29.34	25	12.38	1	14.1. 21	21.41	1 56	3. 21	28	♈ 10.10	4 22	6. 46
26	5	19.17	13	29 36	24	13. 5	0	14.58.36	22. 2	49	5. 27	18	22. 1	3 40	7. 2
27 ☉	6	19.25	13	29.38	24	13.32	58	15.55.49	22.21	41	7. 34	7	♉ 3. 49	2 48	7. 4
28	7	19.33	13	29.40	24	14. 0	56	16 53. 1	22.40	33	9. 43	S 3	15.38	1 50	6. 5?
29	8	19.41	13	29.42	24	14.28	55	17.50.13	22.56	26	11.53	13	27.31	0 47	6. 22
30	9	19.49	13	29.45	23	14.56	53	18 47.26	23.10	18	14. 4	24	♊ 9. 31	S 0 19	5. 45
31	10	19.57	12	29.47	23	15.24	52	19.44.38	23.22	11	16.16	34	21.40	1 25	4. 58

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid	♃ occid	♂ occid	☉	♀ occid	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1		△ 22		☌ 4.43				11 *Maji*
2			□ 6				☽☊	12
3 Asc. Dom.	☌ 7							13 Asc. D.
4		□ 9.	⚹ 19			⚹ 8	Vc. ♃☿	14
5 Gothard.					☌ 5			15 Sophia
6 *G. Exaud.*		⚹ 19		⚹ 13				16 *C. Exaudi*
7						□ 0.		17
8 Stanisl.	⚹ 3							18
9 Hiob			☌ 14	□ 0.34		△ 12.	△☉♃ 20 △♂☿ 20 (	19 Bernhard
10	□ 9				⚹ 2		(Bq ♃☿.	20
11		☌ 5.		△ 8				21
12	△ 11.				□ 7			22
13 *G. Pent.*			⚹ 20					23 *C. Pent.*
14					△ 9.	☍ 4.	☽ Perig.	24
15 Sophia		⚹ 6.	□ 21.	☍ 15.32			☽☋ Ecl. ☽ total. apud nos.	25 Urbanus
16	☍ 12.						⚹ ♀ ☿ 10	26
17		□ 7					SS ♄♀ SS ♄☿	27
18			△ 0		☍ 15.	△ 19.		28 Wilhelm.
19 Bernhar		△ 10					Td ♂☿.	29
20 *G. Trin.*	△ 20			△ 3.				30 *C. Trinit.*
21						□ 10		31
22			☍ 15.	□ 15.33			□☉♂ 7 Td ☉♃	1 *Iunij.*
23	□ 6				△ 10		△♃☿ 3	2
24		☍ 3				⚹ 7		3 Corp. Chr.
25 Urbanus	⚹ 18			⚹ 8.				4
26					□ 0			5 Bonifac.
27 *G 1. p. Tr.*			△ 20.					6 *C 1. p. Trin.*
28 Wilhel.					⚹ 14.		☽ Apog. Td ♃☿	7
29		△ 4.					☽ ☊	8 Medardus
30	☌ 20.		□ 11	☌ 19.51		☌ 11	□♂☿ 12	9
31	orien	□ 16					☌☉♄ 6	10

Stylo Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit.	La.	☽ Longit.	Latit.	☊ Longit.
		♊	M D I	♍	S D I	♍	S D O	♊	♋	S D I	♊ ♋	S A O	♋	S. A.	♊
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G M.	G. M.	G. M
1	11	20. 5	12	29.50	23	15.53	50	20.41.50	23.32	3 0	18.29	45	3. 59	2 28	4. 1
2	12	20.13	12	29.53	23	16.21	49	21.39. 0	23.40	51	20.44	53 -1-	16.30	3 25	3. 3
3	☉ 13	20.21	12	29.56	22	16.50	48	22.36.10	23.45	40	22.59	1	29 14	4 12	3. 1
4	14	20.29	12	29.59	22	17.19	46	23.33.19	23.49	29	25.15	9	♌ 12 10	4 47	3.
5	15	20.37	12	♎ 0. 2	22	17.48	45	24.30.28	23 51 Retr.	17	27.30	18	25.17	5 9 D	3. 2
6	16	20.45	12	0. 6	22	18.17	44	25.27.36	23 51	6 M.	29 45	26	♍ 8 43	5 15	3. 4
7	17	20.53	12	0. 9	21	18.47	43	26.24.44	23.49	6	♋ 1. 56	30	22 17	5 2	4. 2
8	18	21. 1	12	0. 13	21	19.17	42	27.21.51	23.44	17	4. 4	35	♎ 6. 9	4 32	5. 1
9	19	21. 9	12	0. 17	21	19.47	41	28.18.58	23.35	28	6. 10	39	20 18	3 45	5. 4
10	☉ 20	21.17	12	0. 21	21	20.17	39	29 16. 5	23.23	40	8. 15	44	♏ 4 41	2 43	6. 1
11	21	21.25	12	0. 25	20	20.47	38	♋ 0. 13.12	23. 9	51 1	10.19	41	19 18	1 30	6. 1
12	22	21.33	12	0. 30	20	21.18	37	1. 10.19	22.53	5	12.24	49	♐ 4. 1	0 11 M	5.
13	23	21.41	12	0. 34	20	21.49	36	2 7. 26	22.35	19	14 31	50	18 45	1 10	5. 1
14	24	21.49	12	0. 39	20	22.20	35	3. 4. 33	22.15	33	16.38	50	♑ 3. 24	2 25	4. 1
15	25	21.56	12	0. 44	20	22.51	33	4. 1. 40	21.53	47 2	18.45	51	17 49	3 28	3. 2
16	26	22. 4	12	0. 49	19	23.22	32	4. 58.47	21.29	1	20.52	51	♒ 1. 56	4 19	2. 4
17	☉ 27	22.12	11	0. 54	19	23.54	31	5. 55.53	21. 3	15	22.37	49	15.39	4 53	2. 2
18	28	22.19	11	1. 0	19	24.25	30	6. 52.59	20.35	29	24.17	47	28.58	5 9 D	2. 2
19	29	22.27	11	1. 5	19	24.57	29	7. 50. 5	20. 5	43	25.55	44	♓ 11 51	5 10	2. 4
20	30	22.35	11	1. 11	18	25.29	27	8. 47.11	19.33	57	27.25	42	24 21	4 55	3. 1
21	Iul. 1	22.42	11	1. 17	18	26. 1	26	9. 44.17	18.59	3. 10	29 3	39	♈ 6. 32	4 27	3. 4
22	2	22.50	11	1. 23	18	26.34	25	10.41.20	18.23	23	♌ 0 42	34	18 30	3 48	4. 2
23	3	22.57	11	1. 29	18	27. 6	24	11.38.26	17.46	35	2. 21	28	♉ 0. 19	3 0	4. 5
24	☉ 4	23. 5	11	1. 36	17	27.39	23	12.35.33	17. 8	48	3. 59	23	12. 4	2 4	5. 1
25	5	23.12	11	1. 42	17	28.12	22	13.32.41	16.29	4 0	5. 36	17	23 52	1 3 S	5. 3
26	6	23.20	11	1. 49	17	28.45	20	14.29.49	15.51	12	7. 11	12	♊ 5 47	0 1	5. 2
27	7	23.27	11	1. 56	17	29.18	19	15.26.57	15.14	25	8. 42	4	17 52	1 7	5.
28	8	23.34	11	2. 3	16	29 52	18	16.24. 5	14.36	37	10 11	56	♋ 0 12	2 9	4. 3
29	9	23 41	11	2. 10	16	♎ 0. 25	17	17.21.13	13.59	50 5	11.38	49	12 46	3 8	3. 5
30	10	23.48	11	2. 17	16	0. 59	16	18 18.22	13.21	2	13. 3	41	25.37	3 57	3.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriēt.	♃ occid	♂ occid	☉	♀ occid	☿ Oriēt	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1			✱23.				☍♄☿ 8	11 *Iunij*
2					☌ 13.	occid	☌☉☿ 14	12
3 *G 2.p.Tr.*		✱1					SS♀☿. (SS☉	13 *C 2.p.Tr.*
4	✱ 15			✱22.			SS ☉♀.♀ stat.in(	14
5 Bonifac.						✱5		15 Vitus
6	□21		☌17.				□♃☿ 4	16
7		☌ 13.		□ 7.41	✱2.	□20		17
8 Medard.								18
9	△2			△ 14.	□ 5.			19
10 *G 3.p Tr.*						△7	Q♂☿.	20 *C 3.p.Tr.*
11		✱ 18	✱ 2.		△ 6		☽Perig. □☉♃ 5.	21
12							□♄♂15. ☽☋	22 X.M.Mar.
13	☍5	□19.	□5	☍23.27			✱♂♀ 21.	23
14							SS♄♀	24
15 Vitus		△ 22	△9		☍ 7	☍ 2	Q♃☿.	25
16							SS♄☿ ☌♀☿7	26
17 *G 4.p.Tr.*	△ 2							27 *C.4.p.Tr*
18				△ 16			✱♂☿3	28
19	□10.				△15			29 Petr.Paul
20		☍13.	☍2.			△7		30
21				□ 6. 59				1 *Iulij.*
22	✱9				□0		✱♃☿ 10.	2 Visit Mar.
23						□ 4		3
24 *G. Jo. Ba.*				✱ 1	✱10		☽Apog.	4 *C 5.p.Tr.*
25		△16	△9				☽☊. Q♂♀.	5
26					oriēt.	✱ 3	☌☉♀ 21	6
27 7 dorm.	☌ 11		□23					7
28		□ 3.						8 Chilianus
29 Petr.P.				☌9.15	☌ 2			9
30			✱10				SS ♀☿	10 7 fratr.

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M	Lat M D I	♃ Longit. ♎ G. M	Lat S D I	♂ Longit. ♎ G. M.	Lat S D O	☉ Longitudo ♋ G. M. S.	♀ Longit ♋ G. M.	Lat M A S	☿ Longit. ♌ G. M.	La. S D O	☽ Longit. ♌ G. M	Latit. S. A. G M.	☊ Long ♊ G. M.
1 ☉	11	23.55	11	2. 25	16	1. 33	14	19.15.31	12.45	14	14.26	33	8. 43	4 35	2. 1
2	12	24. 2	11	2. 32	16	2. 7	13	20.12.40	12. 9	21	15.47	23	22. 2	4 58	1. 4
3	13	24.10	11	2. 40	15	2. 41	13	21.9. 49	11.34	27	17. 5	13	♍ 5. 32	D 5 7	1. 54
4	14	24.17	11	2. 47	15	3. 15	12	22.6. 59	11. 0	33	18.21	4 M.	19.11	4 58	1. 4
5	15	24.25	11	2. 55	15	3. 50	11	23.4. 9	10.28	40	19.35	6	♎ 2. 57	4 31	2.
6	16	24.32	11	3. 3	15	4. 24	10	24.1. 20	9. 57	46	20.47	16	16.51	3 49	2.
7	17	24.39	11	3. 11	15	4. 59	9	24.58.31	9. 28	53	22. 0	27	♏ 0. 50	2 52	3.
8 ☉	18	24.46	11	3. 19	15	5. 34	8	25.55.43	9. 0	59	23.11	39	14.57	1 44	4.
9	19	24.53	11	3. 27	14	6. 9	7	26.52.56	8. 34	6- 5	24.19	50	29 10	0 30	4.
10	20	25. 0	11	3. 35	14	6. 44	6	27.50.10	8. 11	12	25.22	1 1	♐ 13 27	M 0 46	4. 4
11	21	25. 7	11	3. 44	14	7. 19	5	28.47.24	7. 51	18	26.21	13	27 47	1 59	4.
12	22	25.14	11	3. 52	14	7. 54	4	29.44.38	7. 33	19	27 14	25	♑ 12. 2	3 5	3. 54
13	23	25 21	11	4. 1	14	8. 30	3	♌ 0. 41.54	7. 17	19	28. 3	37	26 11	3 59	3.
14	24	25.28	11	4. 10	13	9. 5	2	1. 39.11	7. 3	19	28.48	49	♒ 10. 4	4 37	2. 1
15 ☉	25	25.35	11	4. 19	13	9. 41	1	2. 36.29	6. 51	19	29.28	2- 1	23 42	4 58	1. 2
16	26	25 42	11	4. 28	13	10.17	0 M.	3. 33.49	6. 41	20	♍ 0. 4	13	♓ 6. 57	D 5 3	1.
17	27	25.49	11	4. 37	13	10.53	0	4. 31. 9	6. 35	20	0. 41	26	19 49	4 51	0. 5
18	28	25.55	11	4. 46	13	11.29	1	5. 28 29	6. 33	20	1. 14	38	♈ 2. 20	4 27	0. 57
19	29	26. 2	11	4. 56	13	12. 5	2	6. 25.50	Dir. 6. 33	20	1. 44	50 3	14.32	3 50	1. 1
20	30	26.29	11	5. 5	12	12 41	3	7. 23.11	6. 35	21	2 9	3	26 30	3 4	1. 47
21	31	26 15	11	5. 15	12	13.17	4	8. 20.35	6. 40	21	2. 30	15	♉ 8. 18	2 10	2. 2
22 ☉	Au 1	26.21	11	5. 25	12	13 54	5	9. 18. 0	6. 47	17	2. 46	26	20. 2	1 10	2. 5
23	2	26.28	11	5. 35	12	14.30	6	10.15.25	6. 55	13	2. 59	36	♊ 1. 49	0 10	3.
24	3	26.34	11	5. 45	12	15. 7	7	11.12.52	7. 6	10	3. 5	47	13.45	0 53	3. 4
25	4	26.40	11	5. 55	12	15.44	8	12.10.20	7. 19	6	Retr. 3. 7	58 4	25 54	1 55	3. 5
26	5	26.47	11	6. 5	11	16.21	9	13.7. 48	7. 34	2	3. 0	10	♋ 8. 19	2 52	3. 47
27	6	26 53	11	6. 15	11	16.58	10	14.5. 18	7. 51	5 58	2. 48	16	21 5	3 41	3. 2
28	7	26.59	11	6. 25	11	17.35	11	15.2. 50	8. 9	54	2. 30	23	♌ 4 12	4 22	2. 4
29 ☉	8	27. 5	11	6. 35	11	18.13	12	16.0. 23	8. 29	52	2. 6	29	17.39	4 49	1. 5
30	9	27.11	11	6. 45	11	18.50	12	16.57.57	8. 51	47	1. 39	36	♍ 1 23	4 59	1.
31	10	27.17	10	6. 55	10	19.28	13	17.55.32	9. 14	44	1. 9	42	15.20	D 4 52	0.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Occid	♂ occid	☉	♀ orient	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 G 6.p.Tr.						☌ 11.	Q ☉♂	11 C 6.p.Tr.
2 Visit.Mar.	✱4						☌♃♂23 Q☉♃	12 Henricus
3 Cornelius					✱11			13 Margar.
4 Ulricus	□9			✱7.				14
5		☌0	☌2		□12.			15 Divis.Ap.
6	△13			□13.11		✱7	SS ☉♄	16
7					△15			17
8 G.7.p.Tr.				△20		□15	☽ Perig.	18 C7.p.Tr.
9		✱7	✱12				✱♄☿15 ☽☋.	9
10	☍9.					△21		20 Elias
11 Pius		□10	□16.		☍16.		☿lõgis.à☉ □♂(	21
12 Henricus							(♀14.	22 Mar.Ma.
13 Margar.		△13.	△22	☍8. 23				23.
14								24
15 G.8.p.Tr.	△4				△23.	☍11		25 C 8.p.Tr.
16								26 Anna
17	□11.						✱☉♃3	27 Martha
18		☍5	☍19	△7	□8		(SS ☉	28
19							SS ☉♀.♀ dir.in(	9
20 Elias	✱0				✱21	△12		30
21				□0.7			☽ Apog.	31 German.
22 G 9.p.Tr.							Td ♄♂	1 C 9 p.Tr.
23		△7.		✱18.		□2.	☽☊	2
24			△3					3
25 Jacob.	☌1.	□19.			☌22.	✱14		4
26 Anna			□16					5
27 Martha								6
28		✱4		☌20.51				7
29 G.10 p.Tr.	✱16.		✱1					8 C10.p.Tr.
30					✱13	☌0.		9
31 German.	□20.							10 Laurent.

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	Lat M D I	♃ Longit ♎ G. M.	Lat S D I	♂ Longit ♎ G. M.	Lat M A O	☉ Longitudo ♌ G. M. S	♀ Longit. ♋ G. M.	Lat M D S	☿ Longit. ♍ G. M.	La. M A 4	☽ Longit. ♍ G. M.	Latit. S. D. G. M	☊ Longit. ♊ G. M.
1	11	27.22	10	7. 6	10	20. 5	14	18.53. 8	9. 41	40	0. 38	49 D	29 25 ♎	4 27	0. 3
2	12	27.28	10	7. 16	10	20.43	15	19.50.46	10. 9	34	0. 2 ♌	47	13 32	3 46	0. 4
3	13	27.33	11	7. 27	10	21.21	16	20.48.25	10.39	29	29.20	44	27.40 ♏	2 51	0. 56
4.	14	27.39	11	7. 38	10	21.59	17	21.46. 5	11.10	23	28.32	42	11 44	1 45	1. 3
5	15	27.44	11	7 49	10	22.37	17	22.43 47	11.42	17	27.38	40	25 46 ♐	0 34	1. 4
6	16	27.50	11	8. 0	10	23.15	18	23.41.30	12.16	12	26.38	38	9. 45	0 40	2. 27
7	17	27 55	11	8. 11	10	23.53	19	24.39.15	12.51	6	25.36	27	23 41 ♑	1 51	2. 5
8	18	28. 0	11	8. 22	9	24.31	19	25.37. 1	13.27	1 4	24.40	16	7. 35	2 54	3. 11
9	19	28. 5	11	8. 33	9	25.10	20	26.34.48	14. 4	55	23.49	5 3	21 25 ♒	3 47	3. [illegible]
10	20	28.10	11	8. 44	9	25.48	21	27.32.37	14.43	49	23. 4	53	5. 9	4 26	2. 3
11	21	28.15	11	8. 55	9	26.27	22	28.30.27	15.24	44	22.24	4.	18 45 ♓	4 50	1. 5
12	22	28 20	11	9. 6	9	27 6	22	29 28 19 ♍	16. 5	36	21.48	25	2. 1	4 58 D	1. 4
13	23	28.25	11	9. 17	9	27.45	23	0. 26 14	16.47	31	21.1	7 2	15.	4 51	0 18 ♉
14	24	28.29	11	9. 28	9	28.25	24	1. 24.11	17.30	25	20 49	50	27 50 ♈	4 27	29 40
15	25	28.34	11	9. 40	9	29. 4	25	2 22.10	18.14	19	20.25	32	10.17	3 50	29.2
16	26	28 39	11	9. 52	9	29 43 ♏	25	3. 20.10	18.59	13	20. 4	15	22 27 ♉	3 6	29 16
17	27	28.43	11	10. 3	8	0. 22	26	4. 18.11	19.44	6	20. 0 r.	1 57	4. 24	2 13	29.2
18	28	28.48	11	10.15	8	1. 1	27	5. 16.14	20.31	0 3	19 59	40	16.12	1 15	29 5 L
19 ☉	29	28.5[illegible]	11	10.27	8	1. 40	27	6. 14.19	21.19	54	20.10	23	27 56 ♊	0 14 S	0. 21
20	30	28.56	11	10.38	8	2. 19	28	7. 12.29	22. 8	8	20 29	5	9. 42	0. 48	0. 50
21	31	29. 0	11	10.50	8	2. 59	29	8. 10.32	22.57	41	20.56	48	21 37 ♋	1 49	1. 31
22	Se 1	29. 4	11	11. 2	8	3. 38	30	9. 8. 42	23.47	35	21.40	32	3. 46	2 45	2. [illegible]
23	2	29. 8	11	11.14	8	4. 18	30	10.6. 53	24.38	29	22.27	16	16.13	3 35	2. 1
24	3	29.12	12	11 26	8	4. 58	31	11.5. 6	25.29	22	23.18	[illegible]	29. 4 ♌	4 16	2. 2
25	4	29.16	12	11.38	7	5. 38	32	12.3. 21	26.21	16	24.12	16	12.19	4 45	2. [illegible]
26 ☉	5	29.19	12	11.50	7	6. 18	33	13.1. 39	27.14	10	25.10	32	26. 0 ♍	4 59 L	1. 3
27	6	29.23	12	12. 2	7	6. 58	33	13.59.59	28. 8	3 2	26.22	42	10. 3	4 55	0 41 ♉
28	7	29.26	12	12.15	7	7. 38	34	14.58.20	29. 2	57	27 41	52 1	24 24 ♎	4 32	29 4
29	8	29 30	12	12.27	7	8. 18	35	15.56.43	29 57 ♌	51	29 7 ♍	1	8 55	3 51	29. 1
30	9	29.33	12	12.39	7	8. 58	35	16 55. 8	0. 52	44	0 40	11	23 29 ♏	2 5[illegible]	28.3
31	10	29.36	12	12 51	7	9. 38	36	17.53.35	1. 48	38	2. 17	21	8 0	1 45	[illegible].8

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Occid	♂ occid	☉	♀ orient	☿ occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Vincul.P.		☌13			□18			11 *Augusti*
2			☌13	✱11.				12
3	△0				△23	✱2.	(13 ☽ Perig.	13
4				□18.26			✱♄☿21.✱☉♂(	14
5 *G 11.p.Tr.*		✱19				△3	☽.☋	15 *C 11.p.Tr.*
6 Sixtus								16
7	☍7.		✱0.	△2		△3	☌☉☿12	17
8		□1.			☍10.	orien.		18
9			□7					9
10 Laurent.		△6.					✱☉♄17	20
11	△17		△14.	☍19.2		☍6		21
12 *G.12.p.Tr.*								22 *C12.p.Tr.*
13					△3.			23
14	□1	☍23					△♄♂3	24 Barthol.
15 Assum.M.					□17	△19.		25
16	✱12.		☍15.					26
17				△0			SS ♀☿.☿ dir.in.	27
18					✱9.	□8	(SS♀.☽ Apog.	28 Augustin.
19 *G.13.p.Tr.*				□18.27			☊	29 *C13.p.Tr.*
20		△2				✱22.		30
21	☌14.							31
22		□14	△0	✱11				1 *Sept.* Egid.
23					☌17			2
24 Barthol.		✱1	□11				SS☉♃ Q☉♄	3
25						☌22.		4
26 *G 14 p.Tr.*	✱6		✱18.				☿ peregrin. à ☉	5 *C14.p.Tr.*
27				☌5.17				6
28 Augusti.	□8.				✱8		SS ♄♀	7 Regina
29 Dec.Joa.		☌6					✱♄☿6 Q♃♀	8 Nativ.Ma.
30	△10				□13	✱13.	SS♀☿☽ Perig.	9
31			☌3	✱18				10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Longit.
		♊	M D I	♎	S D I	♏	M A O	♍	♌	M D 2	♍	S A I	♏	S. D.	♉
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1	11	29.39	12	13. 4	7	10.18	37	18.52. 4	2. 44	31	3. 57	32	22.23 ♐	0 35 M	28.46
2	☉12	29.43	12	13.16	7	10.59	37	19.50.35	3. 41	25	5. 36	35	6. 35	0 39	29 20 ♊
3	13	29.46	12	13.29	7	11.40	38	20.49. 8	4. 39	19	7. 19	38	20.34 ♑	1 51	0. 2
4	14	29.50	12	13.41	6	12.21	39	21.47.44	5. 37	13	9. 6	42	4. 23	2 55	0. 44
5	15	29.53	12	13.54	6	13. 2	39	22.46.22	6. 35	7	10 54	45	18. 0 ♒	3 48	1. 17
6	16	29.56	12	14. 7	6	13.43	40	23.45. 2	7. 34	1	12.44	49 D	1. 28	4 28	1. 36
7	17	29 59 ♋	12	14.19	6	14.25	40	24.43.44	8. 33	I 55	14.36	47	14.47	4 53	1. 35
8	18	0. 2	12	14 32	6	15. 6	41	25.42.28	9. 33	49	16.29	46	27.55 ♓	5 2 D	1. 17
9	☉19	0. 5	12	14.44	6	15.48	41	26.41.13	10.34	43	18.23	44	10.53	4 55	0 42 ♉
10	20	0. 8	12	14.57	6	16.30	42	27.40. 0	11.35	37	20.19	43	23 38 ♈	4 34	29 5
11	21	0. 11	12	15.10	6	17.11	42	28.38.48	12.36	30	22.12	41	6. 10	3 59	29.10
12	22	0. 14	12	15.22	6	17.53	43	29.37.39 ♎	13.37	25	24. 1	38	18 27 ♉	3 13	28.29
13	23	0. 16	12	15.35	6	18.35	44	0. 36.34	14.39	19	25.47	36	0. 33	2 20	27 5
14	24	0. 19	12	15.48	6	19.17	44	1. 35.31	15.41	14	27.33	33	12.27	1 21	27.43
15	25	0. 21	12	16. 1	6	19.59	45	2 34.30	16 44	8	29.18 ♎	30	24.15 ♊	0 19 S	27.42
16	☉26	0. 23	12	16.14	6	20.41	45	3. 33.31	17.47	3 O.	1. 3	27	6. 0	0 44	27.56
17	27	0. 25	12	16.27	6	21.23	46	4. 32.34	18.50	57	2. 48	22	17.47	1 44	28.22
18	28	0. 27	12	16.39	6	22. 6	46	5. 31.39	19.53	51	4. 34	17	29.42 ♋	2 42	28.55
19	29	0. 29	12	16.52	6	22.48	47	6. 30.45	20.57	46	6. 20	11	11.49	3 33	29 31 ♊
20	30	0. 31	12	17. 5	6	23.31	47	7. 29.53	22. 1	40	8. 8	6	24 16 ♌	4 16	0 6
21	Oc 1	0. 32	12	17.18	6	24.13	48	8. 29. 2	23. 5	35	9. 55	1	7. 5	4 46	0. 34
22	2	0. 34	12	17.31	6	24.56	48	9. 28.14	24. 9	30	11.40	55	20 20 ♍	5 3 D	0. 48
23	☉3	0. 35	12	17.44	5	25.39	49	10.27.30	25.14	25	13.23	48	4. 4	5 4	0. 43
24	4	0. 37	12	17.57	5	26.21	50	11.26.49	26.19	20	15. 6	42	18.14 ♎	4 47	0 1 ♉
25	5	0. 38	13	18.10	5	27. 4	50	12.26.11	27.2	15	16.48	34	2. 47	4 10	29.30
26	6	0. 39	13	18.23	5	27.47	51	13.25.35	28.30	10	18.28	30	17.35 ♏	3 16	28.35
27	7	0. 40	13	18.36	5	28.30	51	14.25. 1	29 36 ♍	6	20. 8	23	2. 32	2 13	27.43
28	8	0. 41	13	18 49	5	29.13	52	15.24.29	0. 42	1	21.49	16	17.27 ♐	0. 52 M	27. 7
29	9	0. 41	13	19. 2	5	29.56 ♐	52	16.23.58	1. 48	4	23.28	10	2. 13	0. 28	26.55
30	☉10	0. 41	13	19.15	5	0. 39	53	17.23.29	2. 55	9	25. 6	3	16.45	1 45	27. 6

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ occid	♂ occid	☉	♀ Orien	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Ægidius					△19	□22	☽☋	11 *Septemb.*
2 *G 15.p.Tr.*		✱11.					Elong. max. ♀	12 *C 15.p.Tr.*
3	☍16			□ 0.28				13
4		□16.	✱15			△ 9.		14 Exalt.✠
5				△9			Q♄☿. (✱♂☿20	15
6		△ 23	□23		☍12		SS♃♂ SS♃☿(	16
7 Regina								17
8 Nat Mar.	△4							18
9 *G 16.p.Tr.*			△10			☍16.		19 *C 16.p.Tr.*
10	□12			☍7.43				20 Fausta
11		☍18			△14			21 Matthæus
12	✱23.						□☉♄ 13.	22 Mauritius
13							☽ Apog.	23
14 Exalt.✠			☍14.		□7.		✱♃♀ 3.	24
15				△ 18.		△12	□♄☿14. ☽☊.	25
16 *G 17.p.Tr.*		△ 21						26 *C.17.p.Tr.*
17 Lamber.					✱2			27
18	☌1.			□12.35		□11		28 Wencesl.
19		□10	△22.			occid	☌☉☿ 5.	29 Michael
20 Fausta								30 Hierony.
21 Matthæus		✱19		✱3		✱6	Bq♄♂	1 *Octob.*
22 Maurit.	✱18		□8.		☌7			2
23 *G 8 p.Tr.*								3 *C 18.p.Tr.*
24	□:0.		✱14				□♂♀2	4 Franciscus
25				☌16.45			☌♃☿22.	5
26	△ 21	☌1			✱19	☌2	Td♄☿.	6
27							☽Perig.	7
28 Wencesl			☌20		□23		✱♄♀0 ☽☋	8
29 Michael								9 Dionysius
30 *G19. p.Tr.*	☍23.	✱4		✱1		✱16	Vc.♄♂	10 *C19 p.Tr.*

Styl. Veteri	Stylo Novo	♄ Longit ♋ G. M.	Lat M D I	♃ Longit. ♎ G. M	Lat S D I	♂ Longit. ♐ G. M	Lat M A O	☉ Longitudo. ♎ G. M. S.	♀ Longit ♍ G. M.	Lat S A O	☿ Longit. ♎ G. M.	La. M A O	☽ Longit. ♑ G. M	Latit. M. A. G. M.	☊ Longi. ♉ G. M.
1	11	0. 41	13	19.28	5	1. 22	53	18.23. 1	4. 2	14	26.42	4	0. 59	2 54	27.35
2	12	0. 41	13	19.41	5	2. 5	54	19.22.37	5. 9	18	28.18	11	14.53	3 50	28.1
3	13	0. 41 Retr.	13	19.54	5	2. 49	54	20.22.14	6. 16	22	29 53	17	28.29 ♒	4 33	28.7
4	14	0. 41	13	20. 7	5	3. 32	54	21.21.54	7. 23	26	♏ 1. 28	24	11.46	5 0	29.32
5	15	0. 41	13	20.20	5	4. 16	55	22.21.36	8. 30	30	3. 4	31	24.49 ♓	5 11 D	29.56
6	16	0. 41	13	20.33	5	5. 0	55	23.21.20	9. 37	34	4. 39	38	7. 38	5 5	♊ 0.
7 ☾	17	0. 40	13	20.46	5	5. 44	56	24.21. 6	10.44	38	6. 13	44	20.15 ♈	4 47	♉ 29.
8	18	0. 30	13	20.59	5	6. 28	56	25.20.54	11.52	42	7. 47	51	2. 41	4 12	29.2
9	19	0 39	13	21.12	5	7. 12	56	26.20.44	13. 0	46	9. 20	58 I	14.57	3 28	28.5
10	20	0. 38	13	21.25	5	7. 56	57	27.20.36	14. 8	50	10.52	5	27. 2 ♉	2 34	28.
11	21	0. 37	13	21.38	5	8. 40	57	28.20.30	15.16	53	12.23	11	9. 0	1 35	27.2
12	22	0. 36	13	21.51	5	9. 24	57	29.20.28	16.25	57 1.	13.54	17	20.52 ♊	0 32 S.	26.4
13	23	0. 35	13	22. 4	5	10. 8	58	♏ 0. 20.28	17.34	0	15.24	23	2. 40	0 33	26.19
14 ☉	24	0. 34	13	22 17	5	10.52	58	1. 20.30	18.44	3	16.53	29	14.27	1 36	26.
15	25	0. 33	13	22.30	5	11.36	58	2. 20.34	19.54	6	18.21	34	26 17 ♋	2 35	26.1
16	26	0. 31	13	22.43	5	12.20	59	3. 20.39	21. 4	9	19.47	40	8. 14	3 29	26.2
17	27	0. 30	13	22.56	5	13. 4	59	4. 20.47	22 14	12	21.12	45	20.23 ♌	4 14	26.55
18	28	0. 28	13	23. 9	5	13.49	59 1.	5. 20.57	23.25	15	22.38	50	2. 48	4 48	27.31
19	29	0. 27	13	23.21	5	14.33	0	6. 21. 8	24.36	19	24. 4	56 2	15.33	5 9 D	28. 9
20	30	0. 25	13	23.34	5	15 17	0	7. 21.21	25.47	22	25.31	1	28 43 ♍	5 15	28.4
21 ☉	" No	0. 23	13	23 47	5	16. 2	1	8. 21.35	26.58	25	26.59	6	12.20	5 4	29.
22	1	0. 21	13	24. 0	5	16.46	1	9. 21.51	28. 8	27	28 29 ♐	11	26.25 ♎	4 33	29.1
23	2	0. 19	13	24.13	5	17.30	1	10.22.10	29 19 ♎	29	0. 4	15	10 55	3 46	28.
24	3	0. 17	13	24.26	5	18.15	2	11.22.32	0. 30	31	1. 35	20	25 47 ♏	2 42	28.1
25	4	0. 14	13	24.39	5	19. 0	2	12.22.56	1. 41	33	3. 3	25	10 52	1 26	27.2
26	5	0. 11	13	24.51	5	19.45	2	13.23 22	2. 52	35	4 30	29	26. 1 ♐	0 3 M.	26.2
27	6	0. 8	13	25. 4	5	20.30	3	14.23.49	4. 3	37	5. 50	31	11. 6	1. 20	25.4
28 ☾	7	0. 5	13	25.17	5	21.15	3	15.24.17	5. 14	39	7. 6	32	26. 0 ♑	2 36	25.2
29	8	0. 2 ♊	13	25.30	5	22. 0	3	16.24.47	6. 25	41	8. 16	33	10.31	3 40	25.
30	9	29 59	13	25.43	5	22.45	4	17.25.19	7. 36	43	9. 22	34	24 40 ♒	4 29	25.
31	10	29.56	13	25.56	5	23.30	4	18.25.53	8. 47	45	10.27	35	8 25	5 1	26.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriēt.	♃ occid	♂ occid	☉	♀ Orien	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Remigius					△6		T d ☉ ♄	11 Octob.
2		□8.		□8.34			☌☉♃9	12
3		oriēt.	✶8			□3	△♄☿12	13
4 Franciscus		△15.		△19				14
5	△11		□19			△17.		15 Hedvvig
6 Fides					☍4		SS♂☿	16 Gallus
7 G 20. p. Tr.	□18							17 C 20. p. Tr.
8			△8				Q♄♀	18 Lucas
9 Dionysius		☍12.						19
10	✶7			☍0 42				20
11 Burchard.					△14	☍6	☽ Apog.	21 Ursula
12							☽☊	22
13			☍15				△☉♄6	23
14 G 21. p Tr.		△16			□9.			24 C 21. p. Tr.
15 Hedvvig	☌8.			△13				25
16 Gallus								26
17		□5			✶4	△2	SS♃♀	27
18 Lucas			△22	□5 12			S ♃☿	28 Sim. Jud.
19		✶14.				□17.	Bq♄☿.	29
20	✶3			✶16.			✶♀☿22.	30
21 G 22. p. Tr.			□6.					31
22	□6.				☌2	✶4		1 Nov. Om. S.
23		☌22	✶14				□♄♀20. Vc.♄☿	Omn. An.
24	△1							3
25				☌2. 38			☽ Perig. Ecl. ☉ partial. nobis conspic. [illegible]	4
26					✶12	☌15		5
27		✶23	☌16					6 Leonhard.
28 G 23. p. Tr.	☍7				□16.			7 C. 23. p. Tr.
29				✶11				8
30		□2						9 Theodorus
31 Wolffg				□19 33	△1	✶4		10 Mart. P.

Styl. Veteri	Stylo Novo	♄ Longit ♊ G. M.	Lat M D I	♃ Longit. ♎ G. M.	Lat S A I	♂ Longit. ♐ G. M.	Lat M A I	☉ Longitudo ♏ G. M. S.	♀ Longit ♎ G. M.	Lat S I	☿ Longit. ♐ G. M.	La. M A 2	☽ Longit. ♒ G. M.	Latit. M. A. G. M.	☊ Long. ♉ G. M.
1	11	29.53	13	26. 9	5	24.15	4	19.26.28	9. 59	47	11.30	36	21.44	5 16	27. 4
2	12	29.50	13	26.21	5	25. 0	5	20.27. 5	11.11	48	12.38	D 35	♓ 4. 43	D 5 14	27 41
3	13	29.47	13	26.34	5	25.46	5	21.27.44	12.23	49	13.44	33	17.21	4 57	28.11
4 ☉	14	29.44	13	26.46	6	26.31	5	22.28.26	13.35	50	14.48	32	29 35	4 26	28.27
5	15	29.40	13	26.58	6	27.17	5	23.29.10	14.47	51	15.50	31	♈ 11.57	3 43	28.29
6	16	29.37	13	27.11	6	28. 3	5	24.29.56	16. 0	52	16.47	29	23.57	2 51	28.14
7	17	29.33	13	27.23	6	28.48	5	25.30.42	17.12	53	17.39	24	♉ 5. 56	1 52	27 46
8	18	29.30	13	27.35	6	29 34	6	26.31.29	18.24	54	18.27	18	17.46	0 49	27. 7
9	19	29.26	13	27.47	6	♑ 0. 20	6	27.32.17	19.37	55	19.11	12	29 35	S 0 16	26.23
10	20	29.22	13	28. 0	6	1. 6	6	28.33. 6	20.49	56	19.51	7	♊ 11.24	1 21	25.40
11 ☉	21	29.18	13	28.12	6	1. 52	6	29.33.58	22. 2	57	20.26	1	23 16	2 22	25. 4
12	22	29.14	13	28.24	6	2. 38	6	♐ 0. 34. 50	23.14	57	20.50	I 50	♋ 5 14	3 17	24.40
13	23	29. 9	13	28.36	6	3. 24	6	1. 35.44	24.27	57	21. 9	38	17.18	4 5	24.32
14	24	29. 5	13	28.48	6	4. 10	6	2. 36.40	25.39	57	21.17	26	29.33	4 42	24.36
15	25	29. 1	13	29 0	6	4. 56	7	3. 37.38	26.52	57	21.18 Retr.	15	♌ 12. 2	5 6	25. 0
16	26	28.56	13	29.11	6	5. 42	7	4. 38.38	28. 5	57	21. 7	3	24.46	5 17	25.33
17	27	28.52	13	29.23	6	6. 28	7	5. 39.38	29.18	D 57	20.27	O 44	♍ 7. 51	D 5 11	26.12
18 ☉	28	28 47	13	29.35	7	7. 14	7	6. 40.39	♏ 0. 31	57	19.45	26	21.18	4 48	26.52
19	29	28.43	13	29.46	7	8. 0	7	7. 41.41	1. 44	57	19. 1	8	♎ 5. 10	4 9	27.23
20	30	28.38	13	29.58	7	8. 46	7	8. 42.44	2. 57	57	18.15	S 11	19 27	3 12	27.40
21	De. 1	28.34	13	♏ 0. 9	7	9. 33	7	9. 43.48	4. 10	57	17.26	28	♏ 4. 6	2 2	27.34
22	2	28 29	13	0. 21	7	10.19	8	10.43.53	5. 23	57	16.26	47	19. 3	0 42	27. 4
23	3	28.24	13	0. 32	7	11. 5	8	11.45.59	6. 36	56	15.12	I 6	♐ 4. 11	M 0 41	26.15
24	4	28.20	13	0. 44	7	11.51	8	12.47. 7	7. 49	55	13.44	25	19.20	2 1	25.18
25 ☉	5	28.15	12	0. 55	7	12.38	8	13.48 17	9. 3	54	12. 2	45	♑ 4. 22	3 13	24.28
26	6	28.10	12	1. 6	7	13.24	8	14.49.28	10.16	53	10. 6	2 4	19 8	4 9	23.56
27	7	28. 5	12	1. 17	7	14.11	8	15.50.40	11.29	52	8. 45	13	♒ 3. 31	4 49	23.48
28	8	28. 0	12	1. 28	7	14.58	8	16.51.51	12.43	51	7. 35	22	17.28	5. 11	24. 0
29	9	27.55	12	1. 39	7	15.45	9	17.53. 2	13.57	50	6. 39	31	♓ 0 56	D 5 14	24.29
30	10	27.50	12	1. 50	7	16.32	9	18.54.14	15.11	49	5. 57	40	13.58	5 0	25. 1

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt.	♃ Oriēt	♂ occid	☉	♀ oriēt.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 Om.Sanct.	△15	△8	✱5					11 *Nov.*
2 Om.Ani.						□16.		12
3			□17.	△9			✱♀☿ ferè & tar.	13
4 *G 24.p.Tr.*	□0						✱♃♂10.(Bq☉♄	14 *C 24 p Tr.*
5					☍6	△8.	☿ dist.long.à☉(	15
6 Leonhar.	✱11	☍6	△9				Q♂♀	16
7							☍♄♂22 Td♄♀. (talis ap.nos Q☿♂(	17
8				☍19.28			♭ apo.☽☊Ecl ☽to-(	18
9 Theodor.							SS☉♃ (✱♀☿2.	19 Elisab.
10					△21	☍18	Vc.☉♄	20
11 *G 25.p.Tr.*	☌12	△10	☍18.					21 *C 25.p.Tr.*
12								22
13		□22.			□15.			23 Clemens
14				△6.				24
15						△10	△♄♃1.	25 Catharin.
16	✱7	✱8	△21	□19.39	✱7		△♄♀16	26 Conrad.
17						□21.	☌♃♀2	27
18 *G 6.p.Tr.*	□13							28 *C 1. Adv.*
19 Elisabeth			□5	✱4.		✱21		29
20	△5	☌17.					SS ☉♂ tardus	30 Andreas
21 Obl.Mar.			✱9		☌0			1 *Decemb.*
22							☽ Perig.	2
23 Clemens				☌12.52		☌16	☽☋.	3
24	☋14	✱18.				orien	☌☉☿15.	4 Barbara
25 *G 27.p.Tr.*			☌4		✱8		SS ♀☿	5 *C 2. Advent.*
26 Conrad		□20.						6 Nicolaus
27 Gunthe				✱23	□15	✱8		7
28	△18.							8 Concept.M.
29		△1.				□10.		9
30 Andreas			✱5	□9 23	△2.	-		10

Styl. Veteri	Stylo Novo	♄ Longit. ♊ G. M.	Lat M. D. I	♃ Longit. ♏ G. M.	Lat S. A. I	♂ Longit ♑ G. M.	Lat M. A. I	☉ Longitudo. ♐ G. M. S.	♀ Longit ♏ G. M.	Lat S. D. I	☿ Longit ♐ G. M.	Lat S. A.	☽ Longit. ♓ G. M.	Latit. M. D. G. M.	☊ Longit. ♉ G. M.
1	11	27.45	12	2. 1	7	17.19	9	19.55.26	16.25	49	5 27	2 49	26.36	4 32	25.43
2	☉12	27.39	12	2. 11	8	18. 6	9	20.56.40	17.38	47	5. 0	D 48	♈ 8. 55	3 53	26.17
3	13	27.34	12	2. 22	8	18.53	9 D	21.57.55	18.52	46	4. 42	48	20.59	3 4	26.42
4	14	27.29	12	2. 32	8	19.40	9	22.59.11	20. 6	44	4. 37	47	♉ 2. 54	2 6	26.55
5	15	27.24	12	2. 42	8	20.27	9	24.0. 28	21.20	42	Dir 4. 45	46	14.43	1 5	26.52
6	16	27.19	12	2. 53	8	21.14	9	25.1. 47	22.34	41	4. 59	45	26.30	0 1	26.35
7	17	27.14	11	3. 3	8	22. 1	9	26.3. 4	23.48	40	5. 25	39	♊ 8. 18	S 1 3	26. 5
8	18	27. 8	11	3. 13	8	22.48	8	27.4. 21	25. 2	38	5. 57	33	20.11	2 5	25.24
9	☉19	27. 3	11	3. 23	9	23.35	8	28.5. 38	26.16	37	6. 34	27	♋ 2. 12	3 2	24.39
10	20	26.58	11	3. 33	9	24.22	8	29 6. 55	27.30	35	7. 16	21	14.21	3 51	23.56
11	21	26.53	11	3. 43	9	25. 9	8	♑ 0. 8. 13	28 44	34	8. 3	15	26 39	4 29	23.22
12	22	26 48	11	3. 52	9	25.56	8	1. 9. 32	29.59	32	8. 55	9	♌ 9. 9	4 56	23. 2
13	23	26.43	11	4. 2	9	26.43	8	2. 10.51	♐ 1. 13	30	9. 53	2 I	21.49	5 10	22.58
14	24	26.38	11	4. 11	9	27.30	8	3. 12.11	2. 28	27	10.56	55	♍ 4. 42	D 5 6	23.11
15	25	26.33	10	4. 21	9	28.17	8	4. 13.31	3. 42	25	12. 1	49	17 49	4 49	23.39
16	☉26	26.28	10	4. 30	10	29. 4	[illegible]	5. 14.52	4. 57	23	13. 7	42	♎ 1. 12	4 14	24.17
17	27	26.23	10	4. 39	10	29.51	8	6. 16.13	6. 11	21	14.16	32	14 52	3 24	24.55
18	28	26.18	10	4. 48	10	♒ 0. 38	8	7. 17.33	7. 26	19	15.28	22	28 52	2 22	25 37
19	29	26.14	10	4. 57	10	1. 25	8	8. 18.53	8. 40	17	16.42	12	♏ 13.12	1 10	26. 1
20	30	26. 9	10	5. 6	10	2. 12	8	9. 20.12	9. 54	15	17.59	2 O	27 49	0 8	26. 6
21	31	26. 4	10	5. 15	10	2. 59	8	10,21.31	11. 9	13	19.18	52	♐ 12 39	M 1 28	25.40
22	Ia. 1	25.59	10	5. 23	10	3. 46	7	11,22.50	12,24	10	20.38	4	27 35	2 40	25. 4
23	☉2	25.55	9	5. 32	10	4. 33	7	12 24. 9	13.38	8	21.59	36	♑ 12 30	3 43	24.11
24	3	25.50	9	5. 41	11	5. 21	7	13.25.28	14.53	5	23.21	27	27.15	4 28	23.17
25	4	25.46	9	5. 49	11	6. 8	7	14.26.46	16. 8	2	24.44	19	♒ 11 42	4 57	22.36
26	5	25.41	9	5. 57	11	6. 56	7	15.28. 4	17.23	0	26. 7	11	25 44	D 5 5	22 16
27	6	25.37	9	6. 5	11	7. 43	7	16.29.21	18.38	O 57	27.31	4	♓ 9. 19	4 57	22.14
28	7	25.33	9	6. 13	11	8. 31	7	17.30 38	19.53	55	28 57	M 4	22 27	4 32	22.34
29	8	25.28	9	6. 21	11	9. 18	7	18.31.55	21. 8	52	♑ 0. 24	11	♈ 5. 8	3 55	23. 4
30	☉9	25.24	9	6. 29	11	10. 6	7	19.33.12	22.23	50	1. 52	19	17.28	3 7	23 40
31	10	25 20	8	6. 36	12	10.54	7	20.34.29	23.38	47	3. 21	26	29.31	2 14	24.16

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriét.	♃ Oriét	♂ occid	☉	♀ oriét.	☿ oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 2 *G 1. Adv.*	□2		□19.			△17		11 *Dec.* 12 *C 3. Adv.*
3 4 Barbara	✱13	☍23		△2			✱♂♀1	13 14
5 6 Nicolaus			△12.		☍15	☍18	Bq ♄♀ ☽ ☊	15 16
7 8 Conc. Ma.	☌14			☍15. 1			Apog. ☍☉♄ 1.	17 18
9 *G 2. Adv.* 10	occid	△2.	☍21				Vc. ♄♀	19 *C 4. Adv.* 20
11 12		□14			△4	△23		21 22
13 Lucia 14	✱9	✱23		△21	□19.	□12.	Digress. max. ☿ (à ☉. Vc. ♄♂ 0	23 24
15 Abraham 16 *G 3. adv.*	□15.		△20	□7.45	✱7	✱23	✱☉♃4 SS♃♀	25 Nat. Chr. 26 *C. Steph.*
17 18	△16.	☌10	□3	✱5			SS ☉♀ tardus.	27 Jo. Ev. 28 Innocent.
19 20			✱7.		☌21.		☋ Bq♄♂.	29 30 David
21 Thomas 22	☍21.	✱12.		☌23.50		☌12	☽ Perig.	31 Sylvest. 1 *Ian.* 1650.
23 *G 4. adv.* 24		□14	☌14				□♃♂12	2 *B.* 3
25 Nat. Chr. 26 Stephan.	△0	△18			✱8.	✱1	☍♄☿17	4 5
27 Jo. Ev. 28 Infant.	□6			✱14	□19	□14		6 Epiphan. 7
29 30 *G.*	✱16		✱9	□4.32	△11		Q☉♃.	8 9 *B 1. p. Epiph.*
31 Sylvester		☍14.				△9		10 Paul. Fr.

Radices mediorum motuum Planetarum fundamentis Tabb. Rudolphinarum innitentes, & ad meridiem Cal. Jan. Juliani Anni 1649. Meridianumq; Uraniburgicum directæ.

	S.	°	′	″
Præcessio Æquinoctiorum à 0 ♈	0	28	17	48
Longitudo media ☉ ab Æquinoctio verno	9	21	17	9
Apogæum Solis	3	6	33	26
Longitudo ☽ media ab Æquinoctio Verno	8	28	45	48
Apogæum Lunæ	0	22	56	48
Nodus Boreus Lunæ	4	10	14	56
Longitudo Media ♄ ab Æquinoctio Verno	2	15	43	9
Aphelium Saturni	8	26	58	8
Nodus Boreus Saturni	3	21	57	8
Longitudo ♃ Media ab Æquinoctio Verno	5	28	10	14
Aphelium Jovis	6	7	29	46
Nodus Boreus Jovis	3	5	28	46
Longitudo ♂ media ab Æquinoctio Verno	4	15	14	52
Aphelium Martis	4	29	53	28
Nodus Boreus Martis	1	17	16	20
Motus medius Longitudinis ♀	0	1	41	42
Aphelium ♀	10	2	16	48
Nodus Boreus Veneris	2	13	38	21
Motus medius Longitudinis ☿	5	24	29	49
Aphelium Mercurij	8	14	13	40
Nodus Boreus Mercurij	1	13	33	34

FINIS

Ephemeridis ad Annum Christi 1649.

EPHEMERIS
MOTUUM COELESTIUM AD ANNUM
Incarnationis VERBI juxta æram Dionysianam, sed quam Ecclesia in Occidente hodie denominat

A NATIVITATE JESU CHRISTI
Domini Servatoris nostri

M. DC. L.

Numerant autem ad hunc annum

Orientis & Græcæ Ecclesiæ Christiani, à Conditu rerum	7158.
Judæi, Hebræi & Rabini recentiores,	5410.
Abyssini & Ægyptij Christiani, ab Æra Dioclet. seu Martyrum	1366.
Sarraceni & Turcæ, ab Hegira seu fuga Muhammedis	1059.
Astronomi, à Nabonassaro annos Ægyptiacos 365 dierum	2398.
Ab obitu Alexandri Magni	1973.

Estq; annus secundus à Bisextili ordinationis Julianæ 1694, Emendationis Gregorianæ 68, cujus Character est Periodus Scaligerana, 6363.

Ex quo prodeunt

Cyclus Solis	7.	Aureus numerus	17.
Indictio Romana	3.	Epactæ	7.
Ut & in Juliano		*In Gregoriano.*	
Litera Dominicalis	F.	Litera Dominicalis	B.
Intervallum Hebd. 8. dier.	5	Intervallum Hebd. 9. diei	1.

Hoc anno ingressus ☉ in quatuor puncta signorum Cardinalium ad Meridianum Vraniburg. & tempus Astronomicum apparens accidet Stylo Iuliano.

♈ Die 9 Martij H. 20. M. 59.	♎ Die 12. Septemb. H. 14 M. 54
♋ Die 11 Junij H. 0. M. 13.	♑ Die 11. Decemb. H. 2. M. 36.

Descriptio Eclipsium ad annum Christi 1650.

Quater hoc anno Luminaria deficient, bis de die ☉, bis de nocte ☽. Defectus ☽æ nobis apparebunt, ☉lis nequaquam, sed incolis tantùm (si qui sunt) Terræ Australis Magellanicæ nobis incognitæ, Calculum tamen omnium apponam. Æquum enim censeo, ut hujus partis secundæ annus ultimus cum plerisq; prioribus consentiat.

Calculus Eclipsis ⊙ ad d.20. Aprilis S.V.

Tempus mediæ ☌ erit d 20 April.h.8.7/30//.Intervall.inter veram & med.Syzygiam subtrah.est 1 h.36/42//. Tempus apparens veræ ☌ ad merid. Uranib.d.20 April. 5 h.40/32//.Anom.⊙5 Sex.2 gr.7/44//.Anom.☽ coæq.5 Sex.24 gr.36/42//.Arg.Lat. ☽ 5 Sex.52 gr.31/47//.Lat.☽ vera Merid.38/58//. LocaLuminariũ o Sex.40 gr.25/41//. Nobis a. hoc interlunium non erit Eclipticum: sed iis qui habitant sub Longitudine terræ 339 gr.41/.&Latitud. Australi 51 gr. ut sunt qui habitant in Patagonum regione: iis,inquam,in 90 gr. Eclipticæ vera ac visa ☌ coincidet hora 1 min.52. sec. 16, post merid. Datur ibi ad præfatum tempus Altitudo Luminarium 47 gr.31/40//. Parallax.⊙ 2/2//.Parall.☽ 40/39//.☽à ⊙38/37//.vergens in Sept.Latit.☽ visa A 0/21//.Sd ⊙15 7//. Sd ☽ corr.14/14//.Aggreg SSdd. 29/21//. Pars deficiens 29/0//.Proveniunt igitur Digiti Ecliptici 11.min 30.sec 38. Ad tempus durationis investigandum dantur ad unam hor. ante ☌.Altitudo ☽ 51 gr.38/15//. Parall.⊙1/52//.Parall.☽37/21//. Parall.☽à⊙35/29//.Distantia ☽ ab Horoscopo 69 gr.20/. Angulus Eclipticæ cum verticali 61 gr.32/20//. Parall.Longitud.☽16/55//. Motus hor. ☽ verus 28/19//. Visus 11/24//.Scrupula Incidentiæ 29/21//.Tempus Incidentiæ 2 hor. 34/28//. & tota duratio 5 h.8/56//. Notabunt etiam hanc Eclipsin ⊙ Brasiliani, Peruani, & in regione Chili habitantes: sed longè minorem. Navigantes autem in mari del Nort versus fretum Magellanicum omnium optimè hanc Eclipsin ferè totalem in Meridiano videbunt.

Calculus Eclipsis ⊙ ad 14. Octobr.S.V.

Tempus mediæ ☌ accidet Uraniburgi d.14 Octobr. 12 h.31/49//. Intervall. inter med.& veram ☌ add 4 h.54/49//.Tempus apparens veræ ☌ ad Meridianum Uranib. d 14 Octob 17 h.35/21//. Anom.⊙1 Sex 57 gr.4/13//. Anom.☽ coæquata 1 Sex.56 gr 14/6//. Argum.Latit.☽ 2 Sex.53 gr.19/41//. Latitudo ☽ S.D.34/49//. Longitudo Luminar.3 Sex.31 gr.49/38//. Nobis a.hæc ☌ Ecliptica non apparebit, eò quod Luminaria eo tempore sint infra nostrum Horizontem. Illis a ⊙ obscurabitur, qui Uraniburgo sunt Orientaliores per 7 hor.15/51// & subjacent Longitudini terræ 145 gr 43 & Latitudini Septentr.22 gr. & ii quidem in 90 min 51 sec.12. p m. hanc Eclipsin observabunt Habitantii in Quancy regione Chinæ, in Macao urbe Indiæ, & vicinis locis Dantur enim ibi ad præfatum tempus, distantia polor.&Horiz.68 gr Excessus Declinat.102.gr.9/20//. Distantia ⊙ à M.C 12 gr.48/. Hinc altitudo Luminarium 53 gr.12/35//. Parall.⊙1/47//. Parall.☽36/56//. Parall.☽à ⊙35/9//. Latit.☽ visa A 0/20//.Sd⊙ 15/21//. Sd ☽:6/43//. Aggreg.SSdd 32/4//. Pars deficiens 31/44//. Proveniunt igitur Digiti Ecliptici 12.24/14//. eritq; ☌ centralis & Eclipsis totalis. Ut a. tempus durationis investigetur, Altitudo ☽ ad unam hor. ante ☌ est inquirenda. Dantur igitur distantia pol & Horiz.68 gr, Excessus Declinat ☽101 gr.22/ Distantia ☽ à M. C.1 gr.52 Ergo Altitudo Lunæ 56 gr 34/40//.Parall.⊙1/40//. ☽æ 34/41// ☽æ à ⊙ in Austr.33 1//.Distantia ☽ ab Horoscopo 75 gr.5/.Angulus Eclipticæ cum Verticali 66 gr.11 32 Parall Longitud.☽13/20//.Motus horar.☽ verus 31/52//.Motus horar. ☽ visus 18 32 Scrupula Incidentiæ 32/4//.Tempus Incidentiæ 1 hor 43/49//.Hinc tota duratio erit 3 hor.27/38//.Brevior a,hæc Eclipsis erit priore ob Parallaxin ☽ minorem,& motum horarium ☽ majorem.

Cal-

Calculus Eclipsium ☽, ad 5. Maji, & d.28. Octob. S.V. nobis conspiciendarum.

	PRIMA. Sexag. 5. dies.	Grad. 5. hor.	/	//	SECUNDA. Sexag. 5. dies	Grad. 5. hor.	/	//
Media ☍ accidet Uraniburgi die Maji p. m.	5	2	29	32	28 Oct.	6	53	50
Intervall. inter med. & ver. ☍	add.	6	14	11	subtr.	11	1	39
Æquatio Æquin. add.			10	4			10	6
Tempus apparens vera ☍ Vraniburgi Maji	5	8	53	11		20	2	7
Longitudo ☉ vera	0	55	0	12	3	45	59	45
Anom. ☽ coæquata	2	37	30	2	5	8	49	56
Argum. Lat. ☽	3	7	54	24	0	8	14	34
Longitudo ☽ vera	3	55	0	12	0	45	59	45
Latitudo ☽ vera	M.A.		41	12	S.A.		42	57
Sd ☽ simpl.			17	12			15	40
correcta			19	32			18	0
Sd Umbra terræ correcta			46	41			43	13
Aggreg. SSdd.			66	13			61	13
Pars deficiens			25	1			18	16
Digiti Ecliptici		7 D.	41	3		6. D.	5	20
Scrupula casus			51	49			43	37
Quæ divisa per motum horar. ☽ dant tempus Incidentiæ		1	33	23		1	30	52
Ut tota duratio sit		3	6	46		3	1	44
Initium Eclipsis		7	19	48		18	31	15
Medium seu vera ☍ tempore apparente		8	53	11		20	2	7
Finis		10	26	34		21	32	59
Latitudo ☽ ad Initium Eclipsis	M. A.		36	24	S. A.		18	52
Latitudo ☽ ad finem Eclipsis	M. A.		46	1	S. A.		47	2



Tempore prioris Eclipsis ☽ h. 8.3/. jam aliqua sui parte obscurata Vraniburgi orietur. In Meridiano a. notabunt qui sunt Orientaliores Vraniburgo 3 h. 6/48//. in Longitudine terræ 83gr. 27/ceu sunt habitantes in nova Zembla, in Russia, Tartaria Præcopensi, ad mare de Sala, in Armenia, Caldar, (ol. Chaldæa) in Ayaman, (ol Arabia felix) in urbe Mecca, & Aden, ut & in parte Insulæ Madagascar.

Posterioris Eclipsis initium tantùm animadvertetur sub Meridiano Vraniburgico. Occidet n. ☽ h. 7. min. 45 ante merid. seu h. 19.45/. Digitos 5 adhuc eclipsata. In Meridiano a. cōspicua erit tota illis, qui sunt Occidentaliores Vranib. 8 h. 2/7//. in Longitud. terræ 276. part. 13/. sunt ii incolæ novæ Granadæ & novæ Hispaniæ, ut & sinus Californiæ accolæ. Vos Philomathematici fideliter observate hæc deliquia & observata communicate.

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♊	M. D I	♍	S D I	♒	M D I	♑	♐	S D O	♑	M O.	♉	M. D.	♉
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M.	G. M	G. M.
1	11	25 16	8	6. 43	12	11.42	7	21.35.46	24.53	45	4 50	33	11 23	1 13	24.47
2	12	25.11	8	6. 50	12	12.29	6	22 37. 1	26. 8	42	6. 18	40	23.10	0 11	25.10
3	13	25 .7	8	6. 57	12	13.16	6	23.38.15	27.23	39	7. 46	46	♊ 4. 55	S 0 51	25 20
4	14	25. 3	8	7. 4	12	14. 4	6	24.39.28	28.38	37	9. 15	52	16.44	1 51	2. 16
5	15	24 59	7	7. 11	12	14.51	6	25.40.40	29 53	34	10.44	59 1	28 41	2 47	24.5
6	16	24 55	7	7. 17	13	15.38	5	26.41.52	♑ 1. 7	31	12.13	5	♋ 10 50	3 37	24 23
7	17	24.51	7	7. 24	13	16.26	5	27.43. 3	2. 22	29	13.43	10	23 13	4 17	23 4.
8	18	24.48	7	7. 30	13	17.13	5	28.44.13	3. 37	26	15.14	15	♌ 5. 49	4 45	22 5
9	19	24.43	7	7. 36	13	18. 0	5	29.45.22	4. 52	23	16.47	21	18.36	4 59	22 1
10	20	24 40	6	7. 42	13	18.48	4	♒ 0. 46.30	5. 7	20	18.21	26	♍ 1. 40	D 4 58	21.3
11	21	24.37	6	7. 47	13	19.35	4	1. 47.37	7. 22	18	19.56	31	14.52	4 42	21.2
12	22	24.33	6	7. 53	14	20,22	4	2. 48.43	8. 36	15	21.31	35	28.14	4 9	21 2
13	⊙ 23	24.30	6	7. 59	14	21.10	3	3. 49.48	9. 51	12	23. 6	39	♎ 11 45	3 23	21.5
14	24	24.27	6	8. 4	14	21.57	3	4. 50.53	11. 6	10	24.41	43	25.26	2 24	22 27
15	25	24.24	5	8. 9	14	22.45	3	5. 51.57	12,21	7	26.17	46	♏ 9 17	1 16	23. 9
16	26	24.21	5	8 14	14	23.32	3	6. 52 59	13.36	4	27.53	50	23.20	0 3	23 50
17	27	24.18	5	8. 19	15	24.19	2	7. 53.59	14.51	2	29 30	53	♐ 7 34	M 1 11	24.21
18	28	24.15	5	8. 23	15	25. 7	2	8. 54.58	16. 5	1	♒ 1. 8	55	21 59	2 22	24.33
19	29	24.12	4	8. 28	15	25.54	2	9. 55.56	17.20	4	2. 47	57 2	♑ 6 31	3 24	24 2
20 ⊙	30	24 10	4	8. 32	15	26.41	1	10.56 53	18.35	6	4. 27	0	21 4	4 12	23.5
21	31	24. 7	4	8. 36	15	27.29	1	11.57.49	19.50	9	6. 7	2	♒ 5. 31	4 45	23.
22	Fe. 1	24. 5	4	8. 40	15	28.16	1	12 58 44	21. 5	11	7. 48	2	19 46	4 59	22.
23	2	24. 2	4	8. 44	16	29. 4	1	13.59 38	22,20	14	9. 30	3	♓ 3 44	4. 54	21.
24	3	24. 0	3	8. 48	16	29 51	0	15.0. 29	23.35	16	11.12	3	17 17	4 31	20.
25	4	23 58	3	8. 51	16	♓ 0. 39	0	16.1. 18	24.49	19	12.55	4	♈ 0 25	3 57	20.40
26	5	23.56	3	8. 55	16	1. 26	0 0.	17.2. 5	26. 4	21	14 39	4	13. 9	3 11	20 4
27 ⊙	[illegible]	23.54	3	8. 58	16	2. 13	59	18.2. 50	27.19	24	16,23	2	25 30	2 16	21.
28	7	23.52	2	9. 1	17	3. 0	59	19.3. 34	28 34	26	18. 7	0 1	♉ 7 35	1 16	21.3
29	8	23.51	2	9. 4	17	3. 48	59	20 4. 17	29.49	29	19.52	58	19 26	0 16	22.
30	9	23.49	2	9. 7	17	4. 35	59	21.5. 0	♒ 1. 4	31	21.38	56	♊ 1. 12	S 0 46	22
31	10	23.48	2	9. 9	17	5. 23	58	22.5. 42	2. 19	34	23.24	54	12.56	1 45	23

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ Oriét.	♂ occid	☉	♀ orien.	☿ Orié	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Ianuar.*			□1	△23			☍♄♀7	11 *Ian.* Hygi.
2							☽☊ ✶♃☿9.	12
3			△18.				☽ Apog.	13 Hilarius
4 Telesph.	☌16.						Vc. ☉♄	14 Felix
5 Simeon		△17			☍2.			15
6 *F Epiph.*						☍3		16 *B1.p Epip.*
7 Julian.				☍9.20				17 Anton.
8 Erhard.		□3	☍23					18 Prisca
9	✶11						Bq☉♄	19
10 Paul.Er.		✶11			△7		SS♂☿ Q♃☿	20 Fab.Seb
11 Hyginus	□17.					△10	✶♃♀9	21 Agnes
12				△9	□20			22 Vincent.
13 *F1.p.Epip.*	△22.		△17.			□22.	Vc. ♄☿	23 *B3.p.Epi.*
14 Felix		☌22		□17.37				24 Timoth.
15					✶6		(♂23.	25 Conv. P.
16 Marcell.			□0.			✶8.	☽☋ Bq♄☿. △♄(	26 Polycar.
17 Anton.				✶0.			☽ Perig.□☉♃11	27
18 Prisca	☍4		✶5.					28
19		✶3			☌19.			29
20 *F.2.p.Ep.*								30 *B4.p Epi*
21 Agnes		□5		☌11.40		☌1	Q♃♀	31
22 Vincent	△7.		☌15.				□♃☿13	1 *Februar.*
23		△9						2 Purif.Mar.
24 Timoth.	□12				✶13		Vc.♄♀	3 Blasius
25 Conv.P.								4
26 Polycar.	✶21			✶8		✶3		5 Agatha
27 *F3 p.Ep.*			✶14.		□4			6 *B5.p.Epip.*
28		☍3						7
29				□1.25		□1	☌☉☿6. Bq♄♀	8
30 Adelg.			□7.		△0	occi.	(Td♄♂	9 Apollon.
31	☌22			△17			☽ Apog. △♄☿5 (	10 Scholas.

Styl. Veteri.	Stylo Novo	♄ Longit ♊ G. M.	Lat M D I	♃ Longit ♏ G. M.	Lat S D I	♂ Longit ♓ G. M.	Lat M D O	☉ Longitudo ♒ G. M. S	♀ Longit ♒ G. M.	Lat M A O	☿ Longit ♒ G. M.	Lat M I	☽ Longit ♊ G. M.	Latit S A G. M	☊ Longit ♉ G. M.
1	11	23 46	2	9. 12	17	6. 10	58	23.6. 23	3. 34	36	25.11	52	24 46	2 41	23.37
2	12	23.45	1	9. 14	17	6. 57	57	24.7. 1	4. 48	38	27. 0	47	♋ 6 47	3 30	23.46
[illegible]	☉13	23.44	1	9. 15	18	7. 44	57	25.7. 37	6. 3	40	28 50	43	19. 2	4 10	23.39
4	14	23.43	1	9. 17	18	8. 31	57	26.8. 11	7. 18	42	♓ 0. 42	38	♌ 1. 34	4 40	23.1
5	15	23.42	1	9. 18	18	9. 18	56	27.8. 42	8. 33	44	2. 35	33	14.25	4 56	22.37
6	16	23.41	1	9. 19	18	10. 5	56	28.9. 10	9. 47	47	4. 30	28	27 34	D 4 57	21.50
7	17	23.41	1	9. 20	18	10.52	55	29.9. 37	11. 2	49	6. 24	20	♍ 11. 0	4 41	21. 1
8	18	23.40	0	9. 21	19	11.39	55	♓ 0. 10. 3	12.17	51	8. 17	12	24 37	4 10	20.20
9	19	23.40	0	9. 21	19	12.26	54	1. 10.27	13.32	53	10. 9	4 O	♎ 8. 24	3 23	19.55
10	☉20	23.39	0	9. 22	19	13.13	54	2. 10.49	14.46	55	12. 0	57	22.17	2 24	19.51
11	21	23.39	0	9. 22	19	14. 0	53	3. 11.10	16. 1	57	13.49	49	♏ 6. 13	1 16	20. 7
12	22	23.39	0 O.	Retr. 9. 22	19	14.47	53	4. 11.28	17.16	58 I.	15.38	38	20.12	0. 3	20.40
13	23	23 39	59	9. 22	20	15.34	53	5. 11.44	18.31	0	17.26	27	♐ 4. 12	M 1 15	21.21
14	24	23 39	59	9. 22	20	16.21	52	6. 11.58	19.45	2	19.14	16	18 15	2 26	22. 4
15	25	23.39	59	9. 21	20	17. 8	52	7. 12.11	21. 0	3	21. 2	6 S	♑ 2. 20	3 26	22.35
16	26	23.39	59	9. 21	20	17.55	51	8. 12.23	22.15	5	22.50	5	16.25	4 15	22.55
17	☉27	23.40	59	9. 20	20	18.42	51	9. 12.33	23.29	6	24.34	19	♒ 0. 30	4 49	22.5
18	28	23.40	59	9. 19	20	19.28	50	10.12.40	24.44	[illegible]	26.14	34	14.27	4 56	22.34
19	Ma 1	23.40	58	9. 18	21	20.15	50	11.12.45	25.59	10	27.49	48 1	28 22	4 57	21.54
20	2	23.41	58	9. 16	21	21. 2	49	12.12.48	27.13	11	29.20	2	♓ 12 0	4 39	21. 4
21	3	23.42	58	9. 15	21	21.49	49	13.13.49	28.28	13	♈ 0. 46	16	25 21	4 5	20.1
22	4	23.43	58	9. 13	21	22.36	49	14.12.48	29 42	14	2. 9	29	♈ 8. 21	3 20	19.3
23	5	23.44	58	9. 11	21	23.23	48	15.12.43	♓ 0 57	15	3. 25	42	21. 0	2 29	19.12
24	☉6	23.45	58	9. 9	22	24.10	48	16.12.36	2. 11	16	4. 34	54 2	♉ 3. 20	1 25	19.
25	7	23.46	57	9. 7	22	24.57	47	17.12.27	3. 26	17	5. 26	7	15.25	0 21 S	19.1
26	8	23.48	57	9. 4	22	25.43	47	18.12.17	4. 40	18	6. 10	20	27 17	0 42	19.35
27	9	23.50	57	9. 2	22	26.30	46	19.12. 5	5. 55	19	6. 50	30	♊ 9. 4	1 43	20. 5
28	10	23.52	57	8. 59	22	27.16	46	20.11.51	7. 9	21	7. 24	41	20.49	2 39	20.40

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ Oriét.	♂ occid	☉	♀ orien.	☿ Occi	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Februar.* 2 Pur. Mar.		△ 5	△0.			△1	△☉♄15. Td♃☿	11 *Februar.* 12
3 *F 4.p.Epip.* 4		□14.			☍14		(Td☉♃	13 *B. Sept.* 14 Valent.
5 Agatha 6 Doroth.	✱17	✱21		☍1,8		☍14.	□♃♀15 △♃♂0(SS♂♀ Td♄☿	15 Fauſtin. 16 Julian.
7 8	□22		☍0				△♃☿ 14	17 18 Concord.
9 Apollin. 10 *F. Sept.*	△3			△18.	△9.			19 20 *B Sexag.*
11 12		☌5.	△14		□18.	△15	☌♂☿4 ☽☋	21 22 Cath. Pe.
13 14 Valent.	☍9		□21.	□1,50	✱3	□2	☽ Perig. Td☉♄ SS♀☿	23 24 Matthias
15 Fauſtin. 16 Juliana		✱12	✱15	✱9		✱12.	△♄☿11.	25 26
17 *F. Sexag.* 18 Concor.	△16	□15			☌19.		△♄♀3 △☉♃3	27 *B. Eſto M.* 28 Roman.
19 20	□21	△19	☌17	☌0,25			Td♃♀	1 *Mart.* 2 Cinerum
21 22 Cath. Pe						☌11	Bq♃☿	3 4 Adrian.
23 24 *F. Quinq.*	✱5	☍11.			✱21.		□♄♂11.	5 6 *B Quadrag.*
25 26			✱20.	✱4	□17	✱19	☿ excurſ.m.à ☉(☽☊.☽Ap.Td♄♀	7 Perpetua 8
27 Ciner. 28 Roman.	☌7		□14	□22,38			SS♀☿	9 10

Styl. Veteri	Stylo Novo	♄ Longit. ♊ G. M.	Lat M. D. O	♃ Longit. ♍ G. M.	Lat S. D. I	♂ Longit ♓ G. M.	Lat M D O	☉ Longitudo ♓ G. M. S.	♀ Longit ♓ G. M.	Lat M A I	☿ Longit. ♈ G. M	Lat S A 2	☽ Longit. ♋ G. M.	Latit. S. A. G. M.	☊ Longit. ♉ G. M.
1	11	23.54	57	8. 56	22	28. 3	45	21.11.34	8. 24	22	7. 54	52	2. 39	3 30	21.15
2	12	23.56	57	8. 53	22	28.50	45	22.11.16	9. 39	22	8. 5	58 3-	14.40	4 11	21 46
3	☉13	23.58	56	8. 49	23	29.37	44	23.10.55	10.53	23	8. 9 Retr.	4	26.56	4 42	22. 4
4	14	24. 1	56	8. 46	23	♈ 0. 23	44	24.10.32	12. 8	23	8. 8	11	♌ 9. 32	5 0	22 11
5	15	24. 4	56	8. 42	23	1. 9	43	25..10 6	13.22	24	8. 4	17	22.31	5 4	22. 0
6	16	24. 7	56	8. 38	23	1. 55	43	26.9. 38	14.36	24	7 55	23 D.	♍ 5. 52	D 4 51	21.30
7	17	24.10	56	8. 34	23	2. 41	42	27.9. 8	15.51	25	7. 37	22	19 34	4 22	20 4
8	18	24.13	55	8. 29	23	3. 27	41	28.8. 36	17. 5	25	7. 12	20	♎ 3. 35	3 36	19.52
9	19	24.16	55	8. 25	23	4. 13	41	29 8. 2	18.19	25	6. 38	18	17 48	2 36	19.
10	☉20	24.19	55	8. 21	23	4. 59	40	♈ 0. 7. 27	19.34	26	5. 56	17	♏ 2. 9	1 26	18.2
11	21	24.22	55	8. 16	23	5. 45	40	1. 6. 49	20.48	26	5. 4	15	16 32	0 10	18.1
12	22	24 26	55	8. 11	23	6. 31	39	2. 6. 8	22. [illegible]	26	4. 12	5 2	♐ 0. 51	M 1 7	18 20
13	23	24 29	55	8. 6	24	7. 17	39	3. 5. 25	23.17	26	3. 20	55	15. 6	2 19	18.55
14	24	24.33	54	8. 1	24	8. 3	38	4. 4. 40	24.31	26 D.	2. 28	45	29 13	3 21	19.30
15	25	24.37	54	7. 56	24	8. 49	37	5. 3. 53	25.45	26	1. 37	34	♑ 13 11	4 13	20.15
16	26	24.41	54	7. 50	24	9. 35	37	6. 3. 4	27. 0	26	0. 46	24	27. 2	4 47	20.50
17	27	24.45	54	7. 45	24	10.21	36	7. 2. 12	28 14	26	♓ 29 57	9 1	♒ 10 46	5 D 7	21.20
18	28	24 49	54	7. 39	24	11. 6	36	8. 1. 18	29.28	26	29.12	54	24.18	5 8	21.26
19	29	24.53	53	7. 33	24	11.52	35	9. 0. 22	♈ 0. 42	25	28.29	39	♓ 7. 43	4 50	21.13
20	30	24 57	53	7. 27	24	12.38	35	9. 53.23	1. 57	25	27.49	24	20.55	4 20	20 4
21	31	25. 1	53	7. 21	24	13.23	34	10.58 23	3. 11	25	27.11	9 0	♈ 3. 54	3 36	19.58
22	Apr 1	25. 5	53	7. 14	24	14. 9	33	11.57.21	4. 26	24	26.39	53	16 38	2 41	19.11
23	2	25 10	53	7. 8	25	14.55	33	12.56 16	5. 40	24	26.13	38	29 7	1 40	18.2
24	☉3	25.14	53	7. 1	25	15.40	32	13.55. 9	6. 54	23	25.54	22	♉ 11.21	0 35 S	17.54
25	4	25.19	52	6. 55	25	16.26	32	14.54. 0	8. 8	22	25.41	6 M	23 23	0 30	17.34
26	5	25.24	52	6. 48	25	17.11	31	15.52.50	9. 23	21	25 35 Dir	9	♊ 5. 15	1 34	17.29
27	6	25.29	52	6. 42	25	17.57	30	16.51.38	10.37	20	25.36	22	17. 3	2 33	17.4
28	7	25.34	52	6. 35	25	18.42	30	17.50.23	11.51	20	25.41	35	28.51	3 25	18.
29	8	25.39	52	6. 28	25	19.27	29	18.49. 6	13. 5	19	25.49	48 I	♋ 10 41	4 10	18.3
30	9	25.44	51	6. 21	25	20.12	29	19.47.46	14.20	18	26. 1	I	22.40	4 44	19.1
31	☉10	25.50	51	6. 14	25	20.57	28	20.46.24	15.34	17	26.19	14	♌ 4. 56	5 5	19.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Occid	♃ Oriét	♂ occid	☉	♀ oriét.	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Mart.* 2 Simplic.		△12		△16	△13	□10.	△♃♀ 10	11 *Martii* 12 Gregor.
3 *F. Quadra.* 4 Adrian.		□22.	△5.			△21	□☉♄ 20 ☿ stat.in Vc.♃	13 *B.Remin.* 14
5 6 Fridelin.	✱3	✱5			☍17		Bq ♃♂	15 16 Cyriac.
7 Perpetua 8	□8		☍0	☍13.57		☍6		17 Gertrud 18
9 10 *F.Remin.*	△11	☌10					☌♂☿14	19 Joseph 20 *B. Oculi*
11 12 Gregor.			△10	△2	△8	△5	☽☋ ☽ Perig. Bq ☉♃	21 Benedict. 22
13 Euphras. 14	☍16	✱15	□16	□8.59	□15	oriét. □5	☌☉☿3. Vc.♃♂ □♄♀1	23 24
15 16 Cyriacus		□18.	✱23	✱7	✱0	✱6		25 An.Mar. 26 Castulus
17 *F.Oculi* 18	△1	△22.					☌♀☿21 Vc.☉♃	27 *B.Lætare* 28
19 Joseph 20	□7.				☌1.	☌12	Bq ♃♀ Q♄♂	29 Eustach. 30 Guido
21 Benedict. 22	✱16.		☌19	☌14. 25				31 1 *Aprilis*
23 24 *F. Lætar*		☍15.					Q☉♄ ☊ Vc.♃♀	2 Mar. Æg. 3 *B. Iudica*
25 An.Mar. 26 Castulus				✱23.	✱9.	✱4.	☽ Apog. □♄☿ plat.& tar.	4 Ambrosius 5
27 28	☌17	△15.	✱2			□17.	☿ stat.in □♄	6 7 Egesippus
29 Eustach. 30 Guido			□18.	□17.44	□5	△7	Q♄♀	8 9
31 *F. Iudica*		□2.	Orien		△22.		☌☉♂19	10 *B.Palmar.*

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit.	♃ Lat	♂ Longit.	♂ Lat	☉ Longitudo	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Long.
		♊	M D O	♏	S D I	♈ ♉	M D O	♈	♈	M D I	♓	M A I	♌	S. A.	♉
		G. M.		G. M		G. M.		G. M. S.	G. M.		G. M.		G. M	G. M.	G. M.
1.	11	25.55	51	6. 7	25	21.42	28	21.45. 1	16.48	16	26.40	27	17.31	5 14 D	20.1
2	12	25.59	51	6. 0	25	22.27	26	22.43.36	18. 2	15	27. 4	36	♍ 10 29	5 6	20.55
3	13	26. 3	51	5. 53	25	23.12	25	23.42. 9	19.16	14	27.31	45	13.53	4 41	20.35
4	14	26. 7	51	5. 45	25	23.57	24	24.40.39	20.30	12	28. 4	55	27.41	4 1	20.14
5	15	26.12	50	5. 38	25	24 42	23	25.39. 7	21.45	11	28.48	-2- 4	♎ 11.53	3 3	19.54
6	16	26.16	50	5. 31	25	25.27	22	26.37.34	22.59	10	29.35	13	26 24	1 54	18.4
7 ☾	17	26.21	50	5. 23	25	26.12	21	27.35.59	24.13	8	♈ 0. 24	19	♏ 11. 7	0 35 M	17.48
8	18	26.25	50	5 .15	25	26.57	20	28.34.23	25.27	7	1. 15	25	25.58	0. 46	17.
9	19	26.30	50	5. 8	25	27.41	19	29.32.44	26.41	6	2. 8	31	♐ 10 43	2 4	16.
10	20	26.35	50	5. 0	25	28.26	18	♉ 0. 31. 2	27.55	4	3. 3	37	25.21	3 13	16.
11	21	26.40	50	4. 52	25	29.11	17	1. 29.17	29. 9	3	4. 1	42	♑ 9 45	4 9	17.1
12	22	26.45	49	4. 45	24	29.55	16	2. 27.31	♉ 0. 23	1 0-	5. 2	46	23 52	4 50	17.5
13	23	26.51	49	4. 37	24	♉ 0. 40	15	3. 25.43	1. 37	59	6. 6	48	♒ 7. 42	5 12	18.
14 ☉	24	26.56	49	4. 30	24	1. 24	14	4. 23.54	2. 51	57	7. 13	50	21 15	5 16	19.1
15	25	27. 1	49	4. 22	24	2. 8	13	5. 22. 3	4. 6	55	8. 23	53	♓ 6. 32	D 5 2	19.4
16	26	27. 7	49	4. 14	24	2. 53	12	6. 20.11	5. 20	53	9. 37	56	17.34	4 34	19.5
17	27	27.12	49	4. 7	24	3. 37	11	7. 18.16	6. 34	52	10.53	-D- 55	♈ 0 24	3 52	19.2
18	28	27.18	48	3. 59	24	4. 21	10	8. 16.20	7. 48	50	12.10	55	13. 1	3 0	19.2
19	29	27.24	48	3. 51	24	5. 6	9	9. 14.22	9. 2	48	13.29	54	25.26	1 59	18.5
20	30	27.29	48	3. 44	24	5. 50	7	10.12.22	10.16	46	14.50	54	♉ 7. 40	0. 55	18.
21 ☉	Ma 1	27.35	48	3. 36	24	6. 34	6	11.10.21	11.30	44	16.14	53	19 45	S 0 12	17.
22	2	27.41	48	3. 29	23	7. 18	5	12.8. 18	12.44	42	17.40	50	♊ 1. 42	1 18	16.4
23	3	27 47	48	3. 22	23	8. 2	4	13.6. 14	13.58	40	19. 8	47	13.34	2 19	16.1
24	4	27.53	48	3. 14	23	8. 46	3	14.4. 8	15.12	38	20:39	44	25.23	3 15	15.
25	5	27.59	47	3. 7	23	9. 30	2	15.2. 0	16.26	36	22.12	40	♋ 7. 12	4 2	15.
26	6	28. 5	47	3. 0	23	10.14	1	15.59.50	17.39	33	23.47	37	19. 5	4 39	16.1
27	7	28.12	47	2. 53	23	10.58	0 S	16.57.39	18.53	31	25.30	17	♌ 1. 7	5 4	16.3
28 ☉	8	28.18	47	2. 46	23	11.42	1	17.55.26	20. 7	29	27.19	57	13.20	5 16	17.
29	9	28.24	47	2. 39	23	12.25	2	18.53.12	21.21	27	29 14	38	25.53	D 5 14	17.
30	10	28.31	47	2. 32	23	13. 9	3	19.50.56	22.35	25	♉ 1. 12	18	♍ 8. 46	4 56	18.

Stylo Veteri.	SYZYGIÆ LUNARES.						SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
	♄ Occid	♃ Oriët	♂ oriët.	☉	♀ oriët.	☿ Orië.		
1 *Aprilis.*	✱ 15.		△8	△8.				11 *aprilis.*
2 Mar. Æg.		✱ 10						12 Julius
3	□21							13 Justinus
4 Ambros.						☍ 1		14 Tiburtius
5			☍ 22		☍ 20		✱☉♄ 15 Bq♃☿	15 Olymp.
6	△ 0	☌ 18		☍ 0.24				16
7 *F. Palm.*							☽☋ ✱♄♂ 5	17 *B, Pascha*
8						△ 9	☽ Perig. ✱♄♀ 20	18 Valerian.
9								19
10	☍ 2	✱ 16	△ 5.	△ 9	△ 4	□ 13.	☿ lon. abest à ☉	20
11							Ve. ♃☿. ☌♂♀ 1.	21
12 Julius		□ 19	□ 11	□ 16, 0	□ 12.	✱ 21		22
13 Justinus								23 Georgius
14 *F. Pascha*	△ 9	△ 20.	✱ 17	✱ 22	✱ 20		☍☉♃ 2	24 *B.Q.G.*
15 Olymp.		occid					☍♃♀ 5	25 Marcus
16	□ 18							26
17						☌ 22	☍♃♂ 14	27 Anastasius
18 Valerian.								28 Vitalis
19	✱ 4	☍ 16.	☌ 20		occid		☌☉♀ 18	29
20				☌ 17.31	☌ 6		Ecl. ☉ infra nos(	30
21 *F. Quas.*							(☽☊ Q ♄☿	1 *Maji B. M. D.*
22							☽ Apog.	2
23 Georg.						✱ 13		3 Invent. ✠
24 Albert.	☌ 5	△ 16						4 Florian.
25 Marcus			✱ 5	✱ 17	✱ 21			5 Gothardus
26						□ 11		6 Joan. an. p.
27 Anastas.		□ 3.	□ 19					7
28 *F. Mis. D.*				□ 9. 30	□ 14.		✱♄☿ 13	8 *B. Iubilate*
29	✱ 4.	✱ 12.				△ 7.		9
30			△ 8.	△ 21.			☍♃☿ 15	10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit	☊ Longit.
		♊	M D O	♏	S D I	♉	S A O	♉	♉	M D O	♉	M D O	♍	S. D.	♉
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M	G. M.
1	11	28.37	46	2. 25	23	13.52	4	20.48.38	23.49	23	3. 11	58	22. 4	4 22	18.53
2	12	28.44	46	2. 18	22	14.36	4	21.46.19	25. 3	20	5. 6	54	♎ 5. 49	3 32	19. 3
3	13	28.50	46	2. 11	22	15.20	4	22.43.59	26.17	18	6. 59	50	20. 1	2 27	[illegible]
4	14	28.57	46	2. 4	22	16. 3	5	23.41.37	27.31	16	8. 51	46	♏ 4. 36	1 12	18.19
5 ☉	15	29. 4	46	1. 57	22	16.47	5	24.39.14	28.45	13	10.44	42	19 29	M 0 19	17.28
6	16	29.11	46	1. 51	22	17.30	5	25.36.50	29.58	11	12.38	37	♐ 4. 32	1 32	16.31
7	17	29.18	46	1. 44	21	18.13	5	26.34.24	♊ 1. 12	9	14.35	33	19 40	2 48	15.4
8	18	29.25	46	1. 38	21	18.56	6	27.31.57	2. 26	6	16.35	28	♑ 4 40	3 51	15.1
9	19	29.32	45	1. 32	21	19.39	6	28.29.29	3. 40	4	18.38	23	19.25	4 39	15.1
10	20	29.39	45	1. 26	21	20.22	6	29.27. 0	4. 54	S 2	20.44	18	♒ 3. 49	5 7	15.3
11	21	29.46	45	1. 20	21	21. 5	6	♊ 0. 24.30	6. 8	0	22 52	13	17.50	5 17 D	16. 6
12 ☉	22	29 53	45	1. 14	21	21.48	6	1. 21.59	7. 22	3	25. 1	8	♓ 1. 24	5. 8	16.45
13	23	♋ 0. 0	45	1. 8	20	22.31	7	2. 19.27	8. 36	5	27.11	S 3	14.35	4 42	17.25
14	24	0. 8	45	1. 3	20	23.14	7	3. 16.53	9. 49	8	29 21	2	27.27	4 3	17.56
15	25	0. 15	45	0. 57	20	23.57	7	4. 14.18	11. 3	10	♊ 1. 32	7	♈ 10. 1	3 12	18.16
16	26	0. 22	45	0. 52	20	24.40	7	5. 11.42	12.17	12	3. 44	12	22 22	2 14	18.19
17	27	0. 30	44	0. 47	20	25.22	7	6. 9. 5	13.31	15	5. 58	17	♉ 4. 32	1 11	18. 6
18	28	0. 37	44	0. 42	19	26. 5	8	7. 6. 28	14.45	17	8. 14	22	16.33	0. 6	17.38
19 ☉	29	0. 45	44	0. 38	19	26 48	8	8. 3. 49	15.59	20	10.31	27	28.29	S 0 59	16.59
20	30	0. 52	44	0. 33	19	27.30	8	9. 1. 9	17.12	22	12.50	31	♊ 10.21	2 1	16.15
21	31	1. 0	44	0. 29	19	28.13	8	9. 58.28	18.26	24	15. 7	36	22 12	2 58	15.3
22	Iu. 1	1. 7	44	0. 24	19	28.55	8	10.55.46	19.39	27	17.20	39	♋ 4. 3	3 47	14.5
23	2	1. 15	44	0. 20	18	29 38	9	11.53. 3	20.53	29	19.30	42	15.57	4 27	14.31
24	3	1. 22	44	0. 16	18	♊ 0. 20	9	12.50.19	22. 7	31	21.36	45	27 56	4 55	14.21
25	4	1. 30	44	0. 12	18	1. 2	9	13.47.34	23.21	33	23.39	48	♌ 10. 3	5 11 D	14.2
26 ☉	5	1. 37	43	0. 8	18	1. 45	9	14.44.48	24.34	36	25.40	51	22.20	5 11	14.48
27	6	1. 45	43	0. 5	18	2. 27	9	15.42. 2	25.48	38	27.40	52	♍ 4. 51	4 59	15.19
28	7	1. 52	43	0. 1	18	3. 9	10	16.39.15	27. 2	40	29.39	53	17.39	4 31	15.5
29	8	2. 0	43	♎ 29.58	17	3. 51	10	17.36.28	28.15	42	♋ 1. 37	54	♎ 0. 50	3 48	16.5
30	9	2. 8	43	29.55	17	4. 33	10	18.33.41	29.29	44	3. 34	56	14.26	2 51	17.1
31	10	2. 16	43	29 52	17	5. 15	10	19.30.53	♋ 0 43	47	5. 29	57	28 27	1 41	17.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ occid.	♃ Occid	♂ orien	☉	♀ occid	☿ Oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Maji*	□ 11.				△ 3			11 *Maji*
2								12 Pancrat.
3 Invent. ✝	△ 14.	☌ 20					(nos. ☽☋	13 Servat.
4 Florian.			☍ 19			☍ 8	Eclipſ. ☽ apud (	14
5 *F. Iubil.*				☍ 8. 44	☍ 16		SS ♄♀	15 *B. Cantat.*
6 Joa. a por.							☽ Perig.	16
7	☍ 15.	✶ 19					Vc. ♃♀	17
8 Stanisl.						△ 22.		18 Potent.
9		□ 20	△ 0.	△ 16			☌♂☿ 18	19 Bernhar.
10					△ 2		SS ☉♄	20
11 Mamert.	△ 21	△ 23.	□ 6			□ 10.	Vc. ☉♃	21
12 *F. Cantat.*				□ 0	□ 12		Bq ♃♀	22 *B. Vo. Iuc.*
13 Servat.			✶ 15.					23 Deſider.
14	□ 5			✶ 12		✶ 4.	SS ♄☿ Vc. ♃☿	24
15 Sophia					✶ 2			25 Urbanus
16	✶ 16	☍ 16.						26 Aſc. Do.
17						occid.	☌ ☉☿ 3. Bq ☉♃ (	27
18 Potent.			☌ 20				(Bq ♃☿ ☽☊ △ ♄♃ 10	28
19 *F. Vo. Iuc.*				☌ 21.4				9 *B. Exau.*
20					☌ 15.	☌ 6	☽ Apog.	30 Wigand.
21	☌ 18	△ 16.						31 Petron.
22								1 *Iun.*
23 Aſc. D.							Vc. ♃♂	2 Marcell.
24		□ 4.	✶ 5				☌♀☿ 15	3 Eraſmus
25 Urbanus				✶ 8			SS ♄♂	4
26 *F Exaudi*	✶ 18	✶ 15	□ 19		✶ 5	✶ 7.		5 *B. Pentec.*
27				□ 21.58				6
28					□ 19		△♃☿ 4.	7
29	□ 2		△ 5.			□ 1.	☌♄☿ 5	8 Medard.
30 Wigan.				△ 7.			△♃♀ 8 SS ♂☿	9
31 Petronel.	△ 6.	☌ 2.			△ 4		Bq ♃♂	10 Onophr.

Styl. Veteri	Stylo Novo	♄ Longit	Lat	♃ Longit	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit.	Lat	☿ Longit.	La.	☽ Longit.	Latit	☊ Longit.
		♋	M D	♎	S D	♊	S A	♊	♋	S A	♋	S A	♍	S. D.	♉
		G. M.	O	G. M.	I	G. M.	O	G. M. S	G. M.	O	G. M.	O	G. M.	G. M	G. M
1	11	2. 24	43	29 49	17	5. 57	10	20.28. 4	1. 56	49	7. 22	58 I	12.55	0. 24 M	17.2[illegible]
2 ☉	12	2. 31	43	29.46	16	6. 39	11	21.25.15	3. 9	51	9. 13	8	27 44	0 56	16.55
3	13	2. 39	43	29 44	16	7. 21	12	22.22.25	4. 23	53	11. 0	20	♐ 12 50	2 13	15.3[illegible]
4	14	2. 46	43	29.41	16	8. 3	12	23.19.35	5. 36	55	12.43	29	28. 4	3 23	15.14
5	15	2. 54	43	29.39	16	8. 44	13	24.16.44	6. 50	56	14.23	41	♑ 13.17	4 17	14.2[illegible]
6	16	3. 1	43	29.37	15	9. 26	14	25.13.52	8. 3	58 I	16. 0	50 D	28.15	4 52	13.4[illegible]
7	17	3. 9	43	29.35	15	10. 8	14	26.11. 0	9. 17	0	17.35	45	♒ 12 54	5 9 D	13.[illegible]
8	18	3. 16	43	29.34	15	10.49	15	27.8. 8	10.30	2	19. 9	40	27. 8	5 4	13.[illegible]
9 ☾	19	3. 24	43	29.33	15	11.31	15	28.5. 15	11.44	4	20 40	35	♓ 10 48	4 43	14.[illegible]
10	20	3. 31	43	29.32	14	12.12	16	29.2. 22	12.57	6	22.10	30	24 13	4 6	14[illegible]
11	21	3. 39	4	29.31	14	12.54	17	29 59.29	14.11	8	23.37	25	♈ 6. 53	3 19	15.[illegible]
12	22	3. 47	43	29.30	14	13.35	17	♋ 0. 56 36	15.25	9	25. 1	17	19 22	2 23	16.[illegible]
13	23	3. 54	43	29.30	14	14.16	18	1. 53.43	16.38	11	26.23	9	♉ 1. 34	1 21	16.[illegible]
14	24	4. 2	44	29.29	13	14.58	18	2. 50.50	17.52	12	27.42	I O	13.35	0 17	16.4[illegible]
15	25	4. 10	44	29 29	13	15.39	19	3. 47.56	19. 5	14	28 59	53	25 28	S 0 46	16.[illegible]
16 ☉	26	4. 18	44	29.28 Dir.	13	16.20	20	4. 45. 2	20.18	15	♌ 0. 12	45	♊ 7. 18	1 48	16.[illegible]
17	27	4. 25	44	29 28	12	17. 1	20	5. 42. 8	21.32	16	1. 22	35	19. 7	2 48	15.[illegible]
18	28	4. 33	44	29.29	12	17.42	21	6. 39.14	22.45	18	2. 30	24	♋ 0. 59	3 34	15.[illegible]
19	29	4. 41	44	29.29	12	18.23	22	7. 36.20	23.58	19	3. 35	14	12 54	4 15	14.[illegible]
20	30	4. 49	44	29.30	12	19. 4	22	8. 33.26	25.12	21	4. 38	4 M	24 55	4 44	13.[illegible]
21	Iul 1	4. 57	44	29.31	11	19.45	23	9. 30.32	26.25	22	5. 39	7	♌ 7. 5	5 0	13.1[illegible]
22	2	5. 5	44	29.32	11	20.26	23	10.27.38	27.39	23	6. 36	19	19.21	5 4	12.[illegible]
23 ☉	3	5. 13	44	29.34	11	21. 7	24	11.24.44	28.52	24	7. 29	32	♍ 1. 47	D 4 53	12[illegible]
24	4	5. 22	44	29.35	11	21.48	25	12.21.51	♌ 0 6	25	8. 18	45	14.24	4 29	13[illegible]
25	5	5. 30	44	29.37	10	22.29	25	13.18.58	1. 19	26	9. 4	57 I	27 14	3 48	13[illegible]
26	6	5. 38	44	29.38	10	23. 9	26	14.16. 5	2. 32	26	9. 46	10	♎ 10 21	2 57	14[illegible]
27	7	5. 46	44	29.40	10	23.50	27	15.13.12	3. 46	27	10.28	21	23 47	1 54	14.[illegible]
28	8	5. 54	44	29.42	10	24.30	27	16.10.19	4. 59	28	11.10	32	♏ 7. 37	0 44	15[illegible]
29	9	6. 2	44	29.45	9	25.11	28	17.7. 27	6. 12	29	11.52	43	21.50	M 0 32	15[illegible]
30 ☉	10	6. 10	45	29.47	9	25.51	28	18 4. 36	7. 26	30	12.33	54	♐ 6. 26	1 47	15[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ occid.	♃ occid.	♂ orien	☉	♀ occid.	☿ Occi	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Iunii*							☽☋. ☌♄♀10	11 *Iunij*
2 *F. Pentec.*			☍15					12 *B. Trinit.*
3 Erasm.				☍16.1			☽ Perig. Td ♃☿	13
4 Bonifac.	☍7.	✶2.			☍13			14 Valer.
5						☍2		15 Vitus
6		□2	△19					16 Corp. Ch.
7								17
8 Medard.	△11	△4		△0			SS♂♀	18
9 *F. Trinit.*			□1.		△2	△20	Td♃♀	19 *B 1. Trinit.*
10 Onophr.	□18			□10.4			△☉♃, 12.	20 Sylver.
11			✶12		□15.			21
12		☍20				□12.		22
13	✶5			✶1				23
14 Valerius					✶8		☽☊	24 Jo. Bapt.
15 Vitus	Oriēt.					✶8	☌☉♄10. □♃☿10	25
16 *F 1. p. Tr.*			☌19.					26 *B 2. p. Tr.*
17		△21					☽ Apog.	27 7 dorm.
18	☌7			☌12.24				28
19 Gervas								29 Pet. Paul.
20 Sylver.		□9			☌0.	☌21	SS♄☿	30
21							☿ elon. max. à ☉	1 *Iulii.*
22 X M. Ma		✶20	✶2					2 Visit. Mar.
23 *F 2. p. Tr.*	✶6.			✶20			□♃♀14 Td☉♃	3 *B 3. p. Tr.*
24 Jo. Bapt.			□14.					4 Ulricus
25	□15				✶8	✶23		5 Anshelm.
26				□7.32				6
27 7 dorm.	△21	☌10	△0		□19			7
28				△15.		□6	☽☋. SS♄♀	8 Chilian.
29. Pet. Pau								9 Cyrillus
30 *F 3. p. Tr.*					△2	△10.		10 *B 4. p. Tr.*

Styl. Veteri	Stylo Novo	♄ Longit.	♄ Lat	♃ Longit.	♃ Lat	♂ Longit.	♂ Lat	☉ Longitudo	♀ Longit	♀ Lat	☿ Longit.	☿ La.	☽ Longit.	☽ Latit.	☊ Longi
		♋	M D	♎	S D	♊	S A	♋	♌	S A	♌	M A	♐	M. A.	♉
		G. M.	O	G. M	I	G. M	O	G. M. S.	G. M.	I	G. M.	2	G. M	G M	G. M.
1	11	6. 18	45	29.50	9	26.32	29	19.1. 45	8. 39	31	13.14	5	21.19 ♑	2 56	15.36
2	12	6. 25	44	29.53	8	27.12	30	19.58.54	9. 52	31	13.47	19	6 25	3 53	14.53
3	13	6. 33	44	29 56	8	27.52	30	20.56. 3	11. 6	31	14.11	33	21.34 ♒	4 36	13.58
4	14	6. 41	44	29.59	8	28.33	31	21.53.13	12.19	31	14.26	47	6. 35	4 58	13. 4
5	15	6. 49	44	♏ 0. 2	8	29.13	32	22.50.23	13.32	32	14 31 Retr.	3 1	21 19 ♓	4 59	12.24
6	16	6. 56	44	0. 6	7	29.53	32	23.47.34	14.46	32	14 29	15	5. 37	4 41	12. 5
7	17	7. 4	43	0. 9	7	♋ 0. 34	33	24.44 45	15.59	32	14.26	27	19.27 ♈	4 8	12. 1
8	18	7. 12	43	0. 13	7	1. 14	33	25.41.57	17.12	32	14 21	40	2. 48	3 22	12.2
9	19	7. 19	43	0. 17	7	1. 54	34	26.39.10	18.26	32	14.14	53	5.40	2 26	13.
10	20	7. 27	43	0. 21	6	2. 34	35	27.36.24	19.39	33 B.	14. 2	4 5	28 9 ♉	1 26	13.4
11	21	7. 35	43	0. 25	6	3. 14	35	28.33.39	20.52	33	13 45	18	10 20	0. 22	14.1
12	22	7. 42	42	0. 29	6	3. 54	36	29 30 54	22 5	32	13.23	25	22 17 ♊	0 40	14.4
13	23	7. 50	42	0. 34	6	4. 34	36	♌ 0. 28 10	23.18	32	12.56	33	4. 7	1 41	15. 5
14 ☉	24	7. 57	42	0. 38	5	5. 14	37	1. 25.26	24.32	31	12.24	41	15.54	2 37	15.11
15	25	8. 4	42	0. 43	5	5. 54	38	2. 22.43	25.45	31	11 47	49	27.43 ♋	3 26	15. 3
16	26	8. 12	42	0. 48	5	6. 34	38	3 20. 0	26.58	30	11. 4	6	9 37	4 7	14.39
17	27	8. 19	41	0. 53	5	7. 13	39	4. 17.19	28.11	30	10.17	56	21 38 ♌	4 36	14 2
18	28	8. 26	41	0. 59	4	7. 53	39	5. 14 39	29 24	29	9. 31	56	3 50	4 54	13.18
19	29	8. 34	41	1. 4	4	8. 33	40	6. 12. 0	♍ 0. 37	29	8. 46	56	16.11	4 58	12.32
20	30	8. 41	41	1. 10	4	9. 12	41	7. 9. 22	1. 50	28	8. 2	55	28 43 ♍	4 48	11.52
21 ☽		8 48	41	1. 16	4	9. 52	41	8. 6. 46	3. 3	28	7. 18	55	11 25	4 24	11 2
22	Au 1	8. 55	40	1. 22	3	10.31	42	9. 4. 11	4. 16	26	6. 35	46	24 16 ♎	3 46	11.14
23	2	9. 2	40	1. 28	3	11.10	42	10.1. 37	5. 29	25	5. 54	37	7. 17	2 55	11.21
24	3.	9. 9	40	1. 34	3	11.49	43	10.59. 3	6. 42	24	5. 14	28	20 26 ♏	1 55	11.4
25	4	9. 16	40	1. 41	3	12.28	44	11.56.30	7. 55	23	. 36	19	3. 57	0 47	12.2
26	5	9. 23	40	1. 47	2	13. 7	44	12.53.58	9. 8	21	4. 0	11	17 38 ♐	M 0. 24	13
27	6	9. 30	39	1. 54	2	13.46	45	13.51 27	10.21	20	3. 33	3 55	1. 37	1 37	13.44
28 ☾	7	9. 37	39	2. 1	2	14.25	45	14.48.58	11 34	19	3. 13	39	15 54 ♑	2 44	14.1
29	8	9. 43	39	2. 8	2	15. 4	46	15.46.31	12 47	18	2. 59	24	0 28	3 42	14.
30	9	9. 50	39	2. 15	1	15.43	47	16.44. 5	14. 0	16	2. 5	8	15 15 ♒	4 25	14
31	10	9. 57	39	2. 22	1	16.22	47	17.41.40	15.13	1	2. 51	2 30	0 6	4 52	13.

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ occid	♂ Orien	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Iulij* 2 Visit.Mar.	☍ 0	✱13.	☍ 8.	☍ 22.55			☽ Perig.	11 *Julij* 12
3 4 Ulricus		□13.			☍ 10	☍ 13		13 Margar. 14
5 Anshelm. 6	△ 3	△ 14.	△ 14				☌♀☿ 18. ☿ sta. in ☌♀. △♃♂ 8	15 Divis Ap. 16
7 *F 4. p. Tr.* 8 Chilian.	□ 8		□ 21	△ 10		△ 21.	Q♃♀	17 *B 5. p. Tr.* 18 Rosina
9 Cyrill. 10 7 Fratr	✱ 1[illegible].	☍ 4.	✱ 9	□ 2. 3	△ 6			19 20
11 Pius 12				✱ 16	□ 0	□ 6.	☽☊	21 22 Mar. Mag.
13 Margar. 14 *F 5. p Tr.*					✱ 19.	✱ 17	□☉♃ 3 ☽ Apog.	23 Apollin. 24 *B 6. p. Tr.*
15 Divis. Ap 16	☌ 21	△ 6	☌ 17.					25 Jacobus 26 Anna
17 Alexius 18 Rosina		□ 18.		☌ 2.59		☌ 10.	(☌♄♂ 1 (✱♂☿ 4	27 Martha 28 [illegible]
19 20	✱ 19	✱ 4.	✱ 21		☌ 6.	Oriét	S ♄☿ ✱♃♀ 9. (☌☉☿ 12.	29 30
21 *F 6. p. Tr.* 22 Mar. M.						✱ 21.	SS☉♄.	31 *B 7. p. Tr.* 1 *Aug.* Vinc. P.
23 Apollin. 24 Christ.	□ 3	☌ 20	□ 7.	✱ 5.			SS ♀☿	2 3
25 Jacobus 26 Anna	△ 9.		△ 16	□ 15 5	✱ 7.	□ 1	☽☋ ✱♄♀. SS☉♂	4 Aristarch. 5 Osvvald.
27 Martha 28 *F 7 p. Tr.*				△ 22	□ 16	△ 3	Td♃♂	6 Sixtus 7 *B 8. p. Tr*
29 Beatrix 30	☍ 15	✱ 3	☍ 1		△ 22		☽ Perig.	8 9 Romanus
31 German.		□ 4				☍ 4		10 Laurent.

Styl. Veteri.	Stylo Novo	♄ Longit ♋ G. M.	Lat M D O	♃ Longit. ♏ G. M	Lat S D I	♂ Longit. ♋ G. M	Lat S A O	☉ Longitudo ♌ G. M. S.	♀ Longit ♍ G. M.	Lat S D I	☿ Longit. ♌ G. M. Dir.	Lat. M D 2	☽ Longit. ♒ G. M	Latit. M. D. G M	☊ Longi ♉ G. M.
1	11	10. 3	38	2. 30	1	17. 1	48	18.39.16	16,25	14	2. 54	37	14.54	4 59	12.43
2	12	10. 9	38	2. 37	1	17.40	48	19.36.53	17.38	12	3. 9	20	29.30	4 45	11.49
3	13	10.15	38	2. 44	0	18.19	49	20.34.32	18.50	10	3. 30	2	♓ 13 45	4 13	11. 4
4 ☉	14	10.22	38	2. 52	0	18.58	49	21.32.12	20. 3	8	3. 57	1 45	27.35	3 28	10.37
5	15	10.28	38	3. 0	0	19.37	50	22.29.53	21.16	6	4. 29	28	♈ 10.57	2 28	10.30
6	16	10.34	38	3. 8	0	20.15	51	23.27.35	22.28	4	5. 8	10	23.53	1 31	10.42
7	17	10.40	38	3. 16	0	20.54	51	24.25.19	23 41	2	5. 55	0. 55	♉ 6 24	0 27 S	11. [illegible]
8	18	10.46	38	3. 24	0	21.33	52	25.23. 5	24.54	0	6. 49	39	18.36	0 38	11.42
9	19	10.52	38	3. 33	0	22.11	52	26.20.53	26. 6	0. 58	7. 52	24	♊ 0. 34	1 39	12.[illegible]
10	20	10.58	38	3. 41	0 59	22.50	53	27.18.42	27.19	56	9. 2	9	12.23	2 35	12.5[illegible]
11 ☉	21	11. 4	38	3. 50	59	23.28	53	28.16.32	28.31	54	10.19	S 7	24 10	3 25	13.1[illegible]
12	22	11. 9	38	3. 59	59	24. 7	54	29.14.24	29 43	51	11.41	19	♋ 5. 59	4 5	13.34
13	23	11.15	38	4. 8	59	24.45	55	♍ 0. 12.18	♎ 0. 56	49	13. 8	30	17 55	4 36	13.36
14	24	11.21	38	4. 17	59	25.24	55	1. 10.14	2. 8	46	14.40	42	♌ 0. 2	4 54	13.22
15	25	11.26	38	4. 26	58	26. 2	56	2. 8. 12	3. 21	44	16.18	54	12.22	5 1 D	12.53
16	26	11.32	38	4. 35	58	26 40	56	3. 6. 12	4. 33	41	18. 1	1 6	24.57	4 51	12.12
17	27	11.37	38	4. 44	58	27.19	57	4. 4. 13	5. 45	38	19 46	12	♍ 7. 45	4 28	11.24
18 ☾	28	11.43	38	4. 53	58	27.57	57	5. 2. 15	6. 57	36	21.33	18	20 46	3 50	10.38
19	29	11.48	38	5. 2	58	28.35	58	6. 0. 18	8. 10	33	23.22	25	♎ 3. 59	2 58	10. 2
20	30	11.53	38	5. 11	57	29.13	58	6. 58.23	9. 22	31	25.14	31	17 21	1 57	9. 43
21	31	11.58	38	5. 21	57	29 51	59	7. 56.31	10.34	28	27. 7	38	♏ 0. 52	0. 49 M	9. 43
22	Se. 1	12 3	38	5. 31	57	♌ 0. 29	1 0	8. 54 40	11.47	25	29. 1	39	14.30	0 24	10. [illegible]
23	2	12. 8	38	5. 41	57	1. 7	0	9. 52.51	12.59	22	♍ 0. 56	41	28 17	1 36	10.38
24	3	12.12	38	5. 51	57	1. 45	1	10.51. 4	14.11	19	2. 51	43	♐ 12.13	2 43	11 2[illegible]
25 ☾	4	12.17	38	6. 1	56	2. 22	1	11.49.19	15.23	16	4. 46	45	26 18	3 40	12. [illegible]
26	5	12.21	37	6. 11	56	3. 0	2	12.47.35	16.36	13	6. 41	47	♑ 10 32	4 26	12.35
27	6	12.26	37	6. 21	56	3. 38	2	13.45 54	17.48	10	8. 36	D 45	24 54	4 53	12.10
28	7	12.30	37	6. 31	56	4. 15	3	14.44.15	19. 0	7	10.31	43	♒ 9. 19	5 4 D	12.44
29	8	12.35	37	6. 41	56	4. 53	3	15.42.38	20.12	4	12.24	40	23 42	4 55	12.1[illegible]
30	9	12.39	37	6. 51	55	5. 30	4	16.41. 2	21.24	1	14.17	38	♓ 7. 57	4 27	11.2[illegible]
31	10	12.43	37	7. 2	55	6. 8	5	17.39.28	22.36	M. 2	16. 9	36	21.56	3 45	10.[illegible]

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ Oriēt	♃ occid	♂ oriēt.	☉	♀ occid	☿ Oriē.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Augusti*				☍6.36			☿ stat. in □♃	11 *augusti*
2	△18	△5					✱♂♀1	12 Clara
3			△8		☍9.		Q☉♃	13
4 *F. 8 p. Tr.*	□23					△12		14 *B 9. p. Tr.*
5 Osvvald.			□17	△ 23				15 Ass. Mar.
6 Sixtus		☍18				□23	Q♄♀	16 Rochus
7	✱ 8.						☽☊	17
8			✱ 6	□14.48	△13		☿ max. distat à ☉	18 Helena
9						✱16.		19
10 Laurent.							SS☉♀	20
11 *F. 9. p. Tr.*		△19		✱9	□10		SS♄☿	21 *B 10. p. Tr.*
12 Clara	☌10.						☽ Apog.	22
13			☌14					23 Zachæus
14 Eusebius		□ 8.			✱4.			24 Bartholo.
15 Ass. Mar.						☌9	Q♃☿	25 Ludovic.
16 Rochus		✱18		☌16.31			SS♃♀.	26
17	✱7						✱☉♃19.	27 Gebhard.
18 *F 10. p. Tr.*			✱16					28 *B 11 p. Tr.*
19 Sebald.	□14				☌8			29 Decol. Jo.
20			□22			✱16		30
21	△19.	☌8		✱13.			☽☋	31 Paulinus
22							□♄♀6	1 *Sept.* Ægid.
23 Zachæus			△5	□21.28		□5	SS♂☿. Q♂♀	2 Veronica
24 Barthol.					✱4		(✱♃☿17	3
25 *F 11. p. Tr.*		✱16.				△16	☽ Perig. ✱☉♄12.	4 *B 12. p. Tr.*
26	☍3			△4	□11			5
27 Gebhar.		□19	☍15					6 Magnus
28					△17.	☍2		7 Regina
29 Dec. Joh.		△22					✱♄☿2.	8 Nat. Mar.
30	△8			☍16.6				9 Gorgonius
31 Paulinus								10

Styl. Veteri	Stylo Novo	♄ Longit. ♋ G. M.	Lat M D O	♃ Longit. ♏ G. M.	Lat S. D O	♂ Longit ♌ G. M.	Lat S A I	☉ Longitudo. ♍ G. M. S	♀ Longit ♎ G. M.	Lat M [illegible] O	☿ Longit. ♍ G. M	Lat S D I	☽ Longit. ♈ G. M.	Latit. S D. G. M.	☊ Longit ♉ G. M
1	☉11	12.47	37	7. 13	55	6. 45	5	18.37 58	23.48	5	18. 1	34	5. 36	2 49	9. 49
2	12	12.52	37	7. 24	55	7. 22	6	19.36.29	25. 0	9	19.52	30	18 53	1 46	9. 1[illegible]
3	13	12.57	37	7. 35	55	8. 0	7	20.35. 2	26.12	12	21.43	25	♉ 1. 46	0 38	8. 58
4	14	13. 1	37	7. 46	54	8. 37	7	21.33.37	27.24	15	23.34	21	14.19	S 0 28	8. 59
5	15	13. 6	37	7. 57	54	9. 14	8	22.32.14	28.36	10	25.25	16	26 32	1 33	9. 1[illegible]
6	16	13.11	37	8. 8	54	9. 52	9	23.30.53	29.47	22	27.16	12	♊ 8. 32	2 32	9. 4[illegible]
7	17	13.15	37	8. 19	54	10.29	9	24.29.34	♏ 0. 59	25	29. 5	6	20 23	3 24	10 1[illegible]
8	☉18	13.20	37	8. 30	54	11. 6	10	25.28.17	2. 11	29	♎ 0. 52	0	♋ 2. 10	4 7	10 3[illegible]
9	19	13 24	37	8. 41	54	11.43	11	26.27. 2	3. 22	32	2. 37	54	13 59	4 40	11 [illegible]
10	20	13 29	37	8. 52	54	12.20	12	27.25.48	4. 34	35	4. 20	48	25.56	5 2	11 [illegible]
11	21	13.33	37	9. 4	53	12.57	12	28.24.36	5. 45	39	6. 1	42	♌ 8. 5	5 9	12. [illegible]
12	22	13.38	37	9. 15	53	13.34	13	29 23.27	6. 57	42	7. 42	36	20 29	D 5 3	11.59
13	23	13.42	37	9. 26	53	14.11	14	♎ 0. 22 21	8. 8	46	9. 23	29	♍ 3. 12	4 41	11.40
14	24	13.46	37	9. 38	53	14.48	15	1. 21.17	9. 20	49	11. 3	22	16.24	4 6	11. [illegible]
15	☉25	13.50	37	9. 50	53	15.24	16	2. 20.16	10.31	52	12.43	16	29 33	3 16	10.1[illegible]
16	26	13 54	37	10. 2	53	16. 1	16	3. 19.17	11.42	56	14.22	9	♎ 13. 8	2 13	9. 26
17	27	13.58	37	10.14	53	16.38	17	4. 18.19	12.53	59	16. 0	2 M	26 56	1 2	8. 42
18	28	14. 2	37	10.26	52	17.14	18	5. 17.23	14. 4	1 3	17.37	5	♏ 10 53	M 0 13	8. 14
19	29	14. 5	37	10.38	52	17.51	19	6. 16.28	15.15	6	19.13	12	24.56	1 29	8. [illegible]
20	30	14. 9	37	10.50	52	18.27	20	7. 15.36	16.26	10	20.48	19	♐ 9. 2	2 40	8. 2[illegible]
21	Oc 1	14.12	37	11. 2	52	19. 4	20	8. 14.46	17.36	13	22.21	26	23. 9	3 40	8. 54
22	☉2	14.16	37	11.14	52	19.40	21	9. 13.58	18 46	17	23.54	33	♑ 7. 16	4 28	9. 3
23	3	14.19	36	11.26	52	20.16	22	10.13.13	19.57	21	25.27	40	21 21	5 0	10.1[illegible]
24	4	14.22	36	11.38	52	20.52	23	11.12.31	21. 7	25	26.59	47	♒ 5. 24	5 13	10.[illegible]
25	5	14.25	36	11.50	51	21.28	23	12.11.52	22.17	29	28 30	54	19 23	B 5 8	11.[illegible]
26	6	14.28	36	12. 3	51	22. 4	24	13.11.15	23.27	33	♏ 0. 1	1 1	♓ 3 18	4 44	11.[illegible]
27	7	14 31	26	12.15	51	22.40	25	14.10.39	24.37	37	1. 31	7	17. 3	4 4	10.5[illegible]
28	8	14.33	36	12.27	51	23.16	26	15.10. 5	25.47	41	3. 0	14	♈ 0 37	3 12	10.1[illegible]
29	☉9	14 36	36	12.39	51	23.52	27	16.9. 34	26.57	45	4. 28	21	13.57	2 9	9. 31
30	10	14.38	36	12.51	51	24.28	27	17.9. 5	28. 7	49	5. 55	27	26.59	1 1	8. [illegible]

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Occid	♂ orien	☉	♀ occid.	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Sept. F 12 Tr.*	□ 13		△ 2				☌☉☿ 17	11 *B 13. p. Tr.*
2 Veronica					☍ 12.		□♃♂ 2	12
3	✶ 21.	☍ 11	□ 12.				☽☊	13
4 Theodoſ.				△ 15.		△ 21.	Q ♄☿	14 Exalt. ✠
5								15 Nicodem.
6 Magnus			✶ 3				(Td♄♀	16 Euphem.
7 Regina				□ 9. 9.		□ 21	☽ Apog. Q☉♄(	17 Lamper.
8 *F 3. p. Tr.*	☌ 23	△ 13			△ 0			18 *B 14 p. Tr.*
9 Gorgon.								9
10				✶ 3	□ 19	✶ 19	SS ♀☿	20 Fauſta
11		□ 2	☌ 10					21 Matthæus
12							SS ♄♂	22 Maurit.
13	✶ 19	✶ 11.			✶ 10			23 Eſdra
14 Exalt. ✠							☌♃♀ 7	4
15 *F 14. p. Tr.*				☌ 5. 18			□♄☿ 17 SS ♃☿	25 *B 15. p. Tr.*
16 Euphem.	□ 1.		✶ 4			☌ 2.	(✶♂☿ 15	26 Cyprian.
17 Lampert.		☌ 23					☽☋ △♄♀ 23.(	27 Coſ. Da.
18	△ 5.		□ 11.		☌ 6			28 Wenceſl
19				✶ 21				9 Michael
20 Fauſta			△ 17			✶ 22		30 Hieron.
21 Matth.							☽ Perig.	*Octobr.*
22 *F 15. p. Tr.*	☍ 12	✶ 7		□ 3. 36	✶ 21.			2 *B 16. p. Tr*
23 Eſdra						□ 8	□♂♀ 13.	3
24 Samuel		□ 11		△ 10.			S·☉♃	4 Franciſc.
25			☍ 4		□ 5.	△ 17.		5
26 Cyprian.	△ 19.	△ 15.						6 Fides
27 Coſm. D					△ 14.		□☉♄ 8 Td♄☿	7
28 Wenceſl.								8
29 *F 16. Mic.*	□ 1		△ 19	☍ 4. 25				9 *B 7. p. Tr.*
30 Hieron.						☍ 19	☽☊ Q♂☿	10 Gedeon

Styl. Veteri	Stylo Novo	♄ Longit. ♋ G. M.	Lat M D O	♃ Longit. ♍ G. M.	Lat S. D O	♂ Longit ♌ G. M.	Lat S A I	☉ Longitudo. ♎ G. M. S.	♀ Longit ♏ G. M.	Lat M A I	☿ Longit ♏ G. M.	Lat M A I	☽ Longit. ♉ G. M.	Latit. S. A. G. M.	☊ Longit. ♉ G. M.
1	11	14.41	36	13. 4	51	25. 4	28	18.8. 38	29.17	53	7. 20	34	9. 44	0 8	8. 0
2	12	14.43	36	13.17	51	25.40	29	19.8. 13	♐ 0. 28	55	8. 45	40	22.12	1 16	7. 33
3	13	14 44	36	13.30	50	26.15	29	20.7. 50	1. 39	57 2	10. 9	46	♊ 4. 25	2 20	7. 22
4	14	14.46	36	13.43	50	26.51	30	21.7. 29	2. 50	1	11.33	52	16.25	3 15	7. 27
5	15	14.47	36	13.56	50	27.27	30	22.7. 10	4. 1	2	12.56	58 2	28 18	4 27	7. 45
6	☉16	14 49	36	14. 9	50	28. 2	30	23.6. 54	5. 12	4	14.18	4	♋ 10. 6	4 39	8. 13
7	17	14 50	36	14.22	50	28.38	31	24.6. 40	6. 23	6	15.39	9	21 56	5 4	8. 43
8	18	14 51	36	14.35	50	29 13	31	25.6. 28	7. 34	9	16.59	14	♌ 3 52	5 15	9. 23
9	19	14.52	36	14.48	50	29.48	32	26.6. 17	8. 44	11	18.17	19	16. 0	D 5 13	9. 55
10	20	14.53	36	15. 1	50	♍ 0. 23	32	27.6. 9	9. 55	13	19.34	24	28.24	4 58	10.18
11	21	14.53	36	15.14	50	0. 58	33	28.6. 2	11. 5	16	20.50	29	♍ 11. 8	4 26	10.25
12	22	14.54	36	15.27	50	1. 33	33	29 5. 58	12.15	18	22. 4	32	24 15	3 40	10.20
13	☉23	14.54	36	15.40	49	2. 8	33	♏ 0 5. 57	13.25	20	23.17	35	♎ 7. 44	2 40	9. 55
14	24	14.54	36	15.53	49	2. 43	34	1. 5. 58	14.34	22	24.27	39	21.35	1 31	9. 10
15	25	14.55	36	16. 6	49	3. 18	34	2. 6. 2	15.43	25	25 36	42	♏ 5 44	0 14	8. 16
16	26	14 55	36	16.20	49	3. 53	35	3. 6. 8	16.52	27	26.44	45	20. 8	M 1 5	7. 26
17	27	Retr. 14.55	36	16.33	49	4. 27	35	4. 6. 15	18. 1	29	27.50	46	♐ 4 40	2 21	6. 49
18	28	14.54	36	16.46	49	5. 2	36	5. 6. 24	19.10	31	28.53	47	19 14	3 28	6. 34
19	29	14.54	36	16.59	49	5. 36	36	6 6. 34	20.18	33	29.52	48	♑ 3. 46	4 22	6. 42
20	☉30	14.54	36	17 12	49	6. 11	36	7. 6.47	21.27	36	♐ 0. 47	49	18 8	4 57	7. 10
21	31	14.53	36	17.25	49	6. 45	37	8. 7. 2	22.35	38	1. 38	D 49	♒ 2 19	5 16	7. 5[illegible]
22	No. 1	14.53	36	17.38	49	7. 19	37	9. 7. 19	23.44	39	2. 25	46	16 16	D 5 14	8. 3[illegible]
23	2	14.52	36	17.51	49	7. 53	38	10.7. 38	24.52	41	3. 8	43	♓ 0. 1	4 54	9. 1
24	3	14 51	36	18. 4	48	8. 27	38	11.7. 59	26. 1	42	3. 46	40	13.33	4 22	9. [illegible]
25	4	14.50	35	18 18	48	9. 1	39	12.8. 22	27. 9	44	4. 20	37	26 52	3 30	9. [illegible]
26	5	14.49	35	18.31	48	9. 35	39	13.8. 46	28 18	45	4. 50	34	♈ 9 59	2 30	9. [illegible]
27	☉6	14.48	35	18.44	48	10. 9	39	14.9. 12	29.26	46	5. 14	25	22.54	1 25	9. [illegible]
28	7	14.47	35	18.57	48	10.43	40	15.9. 40	♐ 0 34	48	5. 32	15	♉ 5. 36	0 15	8. [illegible]
29	8	14.46	35	19.10	48	11.17	40	16.10.10	1. 41	49	5. 39	5 1	18 6	S 0 54	7. [illegible]
30	6	14.44	35	19.23	48	11.51	41	17.10.41	2. 48	51	5. 40	56	♊ 0. 23	1 59	6. [illegible]
31	10	14.43	35	19.36	48	12.24	41	18.11.14	3. 55	52	Retr. 5. 29	46	12.32	2. 58	6.

Stylo Veteri	SYZYGIÆ LUNARES. ♄ Orien.	♃ Occid	♂ orien	☉	♀ occid	☿ Occid.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Octobr.* 2 Leodeg.	✱9.	☍6.	□7		☍18			11 *Octobr.* 12 Colman.
3 4 Francisc.			✱22	△10.			☽ Apog.	13 14 Calixt.
5 6 *F 17 p. Tr.*	☌9.	△8.				△9.	☌♃☿21 △♄☿9	15 Hedvvig 16 *B* 18. Gall.
7 8		□21.		□4.45	△8			17 18 Lucas
9 Dionys. 10 Gedeon			☌4	✱21		□5	△♄♃8	19 Ptolem. 20
11 Burchard. 12 Colman.	✱7	✱7.			□0	✱19.		21 Vrsula 22 Cordula
13 *F 18. p. Tr* 14 Calixtus	□12.		✱19	☌17.27	✱0		(Vc.♄♀ Ecl. ☉ in India(	23 *B 19. p. Tr.* 24 Salome
15 Hedvvig 16 Gallus	△15	☌17.	□22			☌12	☽☋S S♃♀ Td☉♄ (Q♃♂	25 Crispin. 26 Amand
17 18 Lucas					☌0		☽ Per. ✱☉♂20(☿ à ☉ elōg. ma.(	27 28 Sim. Jud.
19 Ptolem. 20 *F 19. p. Tr.*	☍18.	✱22.	△3	✱4		✱23	Bq ♄♀	29 30 *B 20. p. Tr.*
21 Ursula 22 Cordula		□2.		□10.45	✱14			31 Wolffg. 1 *Nov.* O.S.
23 Severin. 24 Salome	△3	△8	☍14.	△19.		□6	☽☊. Td♂♀	2 Animar. 3 Theophil
25 Crispin. 26 Amand.	□9				□0.	△14		4 5
27 *F 20. p. Tr.* 28 Sim. Jud.	✱17.		△10	☍19.52	△17		△☉♄15. Eclip. ☽ ap. nos	6 *B 21. p. Tr.* 7 Florent.
29 30		☍2				☍10		8 9 Theodor
31 Wolffg.			□0				SS♀☿ ☿ stat.	10

Styl. Veteri	Stylo Novo	♄ Longit.	Lat	♃ Longit.	Lat	♂ Longit	Lat	☉ Longitudo.	♀ Longit	Lat	☿ Longit	Lat	☽ Longit.	Latit.	☊ Longit
		♋	M D O	♏	S. D O	♍	S A I	♏	♑	M 4 2	♐	M D I	♊	S. A.	♉
		G. M.		G. M.		G. M.		G. M. S.	G. M.		G. M		G. M	G. M	G. M.
1	11	14.41	35	19.50	48	12.57	41	19.11.49	5. 2	54 D	4. 49	36	24 32 ♋	3 48	5. 5
2	12	14.39	35	20. 3	48	13.30	42	20.12.26	6. 9	54	4. 5	19	6. 25	4 27	5. 4
3 ☉	13	14.37	35	20.16	48	14. 3	43	21.13. 5	7. 16	53	3. 16	2	18 15 ♌	4 57	5. 5
4	14	14.35	35	20.30	48	14.36	43	22.13.47	8. 23	53	2. 22	44	0. 7	5 12 D	6. 14
5	15	14.33	35	20.43	48	15. 9	44	23.14.30	9. 29	53	1. 24	27	12. 3	5 16	6. 44
6	16	14.31	35	20.56	48	15.42	45	24.15.14	10.35	53	0. 21 ♏	9	24. 9 ♍	5 4	7. 19
7	17	14 29	35	21.10	48	16.15	45	25.15.59	11 41	53	29 11	10	6 29	4 39	7. 5
8	18	14.26	35	21.23	47	16.48	46	26.16.45	12.47	52	27.55	30	19. 8 ♎	3 59	8. 2
9	19	14.24	35	21.36	47	17.20	47	27.17.32	13.52	52	26.33	49	2 12	3 6	8. 4
10 ☽	20	14.21	35	21.50	47	17.53	47	28.18.21	14.57	52	25 6	9	15.41	2 2	8. 5
11	21	14.18	35	22. 3	47	18.25	48	29.19.12 ♐	16. 2	52	23.34	28	29 35 ♏	0 48 M	8. 3
12	22	14.15	35	22.16	47	18 57	49	0. 20. 5	17. 7	51	22.15	40	13 55	0 31	8.
13	23	14.12	34	22.29	47	19.29	49	1. 20.59	18 12	49	21. 9	51 2	28.34 ♐	1 49	7.
14	24	14. 9	34	22.43	47	20. 1	50	2. 21.55	19.17	48	20.17	3	13.29	3 1	6. 1
15	25	14. 6	34	22.56	47	20.33	51	3. 22.53	20.21	46	19.38	14	28 30 ♑	4 1	5. 2
16	26	14. 3	34	23. 9	47	21. 5	51	4. 23.53	21.25	45	19.12	26	13 28	4 44	5. 4
17 ☉	27	13.59	34	23.22	47	21.37	52	5. 24.53	22.29	43	19. 1 Dir.	28	28 14 ♒	5 8 D	5. 4
18	28	13 56	34	23.35	47	22. 8	52	6. 25.54	23.33	42	19. 6	30	12.42	5 12	5. 2
19	29	13.52	34	23.49	47	22.39	53	7. 26.56	24.36	41	19.16	32	26 49 ♓	4 56	6. 1
20	30	13.49	34	24. 2	47	23.10	54	8. 27.58	25.39	39	19.30	34	10 [illegible]4	4 24	6. 42
21	De 1	13.45	34	24.15	47	23.41	55	9. 29. 1	26.41	38	9.48	36 1	23.56 ♈	3 37	7. 22
22	2	13.42	34	24.28	47	24.12	55	10.30. 6	27.43	35	20.16	32	7. 0	[illegible] 42	7. 52
23	3	13.38	34	24.41	47	24.43	56	11.31.13	28 45	32	20 53	28	19 47 ♉	1 38	8.
24 ☉	4	13 34	34	24.54	47	25.13	57	12.32 22	29 47 ♒	28	21.41	24	2. 22	0 3[illegible] S	[illegible]
25	5	13.30	34	25. 8	47	25.44	57	13.33 31	0. 48	25	22.38	20	14 44	0 36	7. 5
26	6	13.26	34	25.21	47	26.14	58	14.34.41	1. 45	22	23.43	15	26 59 ♊	1 40	7. 2
27	7	13.22	34	25.34	47	26.44	59	15.35.51	2. 49	19	24 49	9	9. 5	2 40	6. 38
28	8	13.18	33	25.47	47	27.14	59 2	16.37. 2	3. 49	16	25.56	2 1	21. 5 ♋	3 32	5. 53
29	9	13.14	33	26. 0	47	27.44	0	17.38.14	4. 49	13	27. 4	55	3. 1	4 14	5. 11
30	10	13.10	33	26.13	47	28.14	1	18.39 26	5. 49	10	[illegible].14	49	14.55	4 44	4. 3

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ Oriét	♂ Orien	☉	♀ occid	☿ occid	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Novemb.* 2 Animar.	☌ 16.		⚹15		☍ 23.		☽ Apog. ☌☉♃19	11 *Nov.* Mar. 12
3. *F 21. p. Tr.* 4		△4		△6.		△4.	⚹♄♂23	13 *B 22. p. Tr.* 14 Frideric.
5 6 Leonhar.		□17.		□ 6.13		□ 13.		15 Leopold. 16
7 Florent. 8	⚹15	⚹4	☌21	⚹ 14	△11	⚹14.	☌☉☿ 4	17 18 Gelasius
9 Theodo. 10 *F 22. p. Tr.*	□21.				□22.	oriét.	☍♄♀11	19 Elisabeth 20 *B 23. p. Tr.*
11 Martinus 12	△1	☌14	⚹ 8.		⚹5.	☌13	☽☋ ☌♃☿23	21 Præs. M. 22 Cæcilia
13 14 Frideric.			□11	☌4.48			Q☉♂ ⚹♂☿6	23 Clemens 24
15 Leopold. 16	☍1	⚹16	△13		☌14	⚹9	☽Perig. △♂♀9	25 Catharina 26 Conrad.
17 *F 3. p. Tr.* 18 Gelasius		□ 19		⚹ 13		□11	⚹♃♀1	27 *B 1. adv.* 28
19 Elisabeth 20	△6		☍23.	□ 20.2		△16.	Bq☉♄	29 Saturn. 30 Andreas
21 Obl. Mar. 22 Cæcilia	□12.	△0.		△ 7	⚹5.		⚹♃♂21.	1 *Decembr.* 2 Candidus
23 Clemens 24 *F 24. p. Tr.*	⚹21.				□18.		(Vc.☉♄ (Q♄♂ ♀lon.prog.à☉(	3 4 *B 2. adv.*
25 Cathar. 26 Conrad.		☍21	△ 22.		△10.	☍17	☿digr.max.à☉	5 6 Nicolaus
27 28			□13	☍14.13			☌♃☿20	7 8 Concep. M
29 Saturni. 30 Andreas	☌20.	△23					☽ Apog. ⚹♂☿0	9 Joachimus 10

Styl. Veteri	Stylo Novo	♄ Longit	♄ Lat	♃ Longit	♃ Lat	♂ Longit	♂ Lat	☉ Longitudo.	♀ Longit.	♀ Lat	☿ Longit.	☿ Lat	☽ Longit.	☽ Latit	☊ Longit.
		♋	M D O	♏	S D O	♍	S A 2	♐	♒	M D 2	♏	S D I	♋	S. A.	♉
		G. M.		G. M.		G. M.		G. M. S	G. M.		G. M.		G. M.	G. M.	G. M.
1 ☉	11	13. 6	33	26.26	47	28.44	1	19.40.39	6. 49	7	29.26	42	26 48	5 2	4. 18
2	12	13. 2	33	26.39	47	29.13	2	20 41.53	7. 48	2	♐ 0 41	34	♌ 8. 43	5 8	4. 11
3	13	12.58	33	26.52	47	29 42	3	21.43. 8	8. 46	I 56	1. 59	26	20. 40	D 5 0	4. 20
4	14	12.54	33	27. 4	47	♎ 0. 11	4	22.44.24	9. 43	51	3. 20	19	♍ 2. 43	4 38	4. 44
5	15	12.49	33	27.17	47	0. 40	4	23.45.40	10.39	46	4. 43	11	15. 4	4 4	5. 17
6	16	12.45	33	27.30	47	1. 9	5	24.46.57	11.35	41	6. 9	3 O	27 43	3 17	5. 55
7	17	12.41	33	27.42	47	1. 37	6	25.48.14	12.30	36	7. 34	55	♎ 10.38	2 19	6. 32
8 ☉	18	12.36	33	27.55	47	2. 5	7	26.49.31	13.24	31	8. 59	48	23.54	1 12	7. 3
9	19	12.32	32	28. 7	47	2. 33	8	27 50.48	14.17	26	10.25	40	♏ 7. 44	M 0 2	7. 19
10	20	12.27	32	28.20	47	3. 1	8	28.52. 6	15. 9	21	11.51	32	22. 0	1 17	7. 15
11	21	12.22	32	28.32	47	3. 29	9	29.53 25	16. 1	15	13.17	24	♐ 6 41	2 30	6. 47
12	22	12.17	32	28.44	47	3. 56	10	♑ 0. 54 44	16.52	8	14.43	15	21 42	3 34	6. 0
13	23	12.13	32	28 57	47	4. 23	11	1. 56. 3	17.43	° O	16.11	6 M	♑ 6 56	4 23	5. 3
14	24	12. 8	32	29. 9	47	4. 50	11	2. 57.22	18.33	53	17.40	3	22.11	4 53	4. 11
15 ☉	25	12. 3	32	29.21	47	5. 17	12	3. 58.42	19 23	45	19.10	12	♒ 7. 18	5 D 3	3. 38
16	26	11.58	32	29.33	47	5. 44	13	5. 0. 2	20.12	38	20 40	22	22 6	4 53	3. 27
17	27	11.53	32	29.45	47	6. 10	14	6. 1. 22	21. 0	30	22.13	26	♓ 6. 27	4 23	3. 40
18	28	11.48	32	29 57	47	6. 36	14	7. 2. 42	21 47	23	23 48	31	20.21	3 39	4. 9
19	29	11.43	31	♐ 0. 9	47	7. 2	15	8. 4. 2	22.33	15	25.25	35	♈ 3 47	2 44	4 47
20	30	11.38	31	0. 21	47	7. 28	16	9. 5. 22	23.18	8	27. 4	39	16 48	1 42	5. 27
21	31	11.33	31	0. 33	47	7. 53	17	10.6. 41	24. 2	0 s	28 44	44	29 28	0 37 S	6. 2
22 ☉	Ia. 1	11.28	31	0. 45	47	8. 19	17	11.8. 0	24.44	10	♑ 0 20	50	♉ 11.52	0 29	6. 26
23	2	11.22	31	0. 56	47	8. 44	18	12.9. 19	25.24	20	1. 52	56 1	24 2	1 32	6. 36
24	3	11.17	31	1. 8	47	9. 9	19	13.10.38	26. 3	30	3. 19	2	♊ 6 5	2 30	6. 30
25	4	11.12	31	1. 20	47	9. 33	20	14.11.56	26.40	40	4 41	8	18. 2	3 21	6. 10
26	5	11.17	31	1. 31	47	9. 57	21	15.13.14	27.16	50 I	6. 0	14	29.56	4 4	5. 37
27	6	11. 1	31	1. 42	47	10.21	21	16 14.32	27.51	0	7. 25	19	♋ 11 50	4 35	4. 55
28	7	10.56	31	1. 54	47	10.44	22	17.15.50	28.24	10	8. 54	24	23 45	4 54	4. 10
29 ☉	8	10.51	30	2. 5	47	11. 8	23	18 17. 8	28.56	20	10.27	28	♌ 5 42	5 D 0	3. 30
30	9	10.46	30	2. 16	47	11.31	24	19.18.25	29.26	30	12. 4	33	17.42	4 52	2. 58
31	10	10.41	30	2. 27	47	11.54	24	20.19 41	29.55	40	13.45	37	29 48	4 33	2. 41

Stylo Veteri.	SYZYGIÆ LUNARES. ♄ oriét.	♃ Oriét	♂ Orien	☉	♀ occid	☿ oriét.	SYZYGIÆ Planetarum mutuæ.	Stylo Novo.
1 *Dec. F. adv.* 2 Candidus			⚹4		☍22	△6		11 *B 3. Adv.* 12 Epimach.
3 Caſſian. 4 Barbara	⚹19.	□12.		△2		□1.	Bq ♄♀ Q♃♀	13 Lucia 14 Nicaſius
5 6 Nicolaus		⚹23.	☌7	□18.13		⚹17.	Bq ♄☿	15 16
7 8 *F 2. Adv.*	□4			⚹5.	△3.		Vc. ♄♀ ☽☋	17 Lazarus 18 *A 4.* Chriſt.
9 Joachim. 10	△8	☌10	⚹18.		□12		SS☉♃ Vc. ♄☿	19 20
11 Damaſ. 12 Epimach.			□20	☌15.34	⚹16	☌11.		21 Thomas 22 Theodoſ.
13 Lucia 14 Nicaſius	☍8	⚹11	△21				☽Perig. Q♂☿	23 24 Adam Eva
15 *F 3. adv.* 16		□12.		⚹23	☌21	⚹21.	⚹♀☿7.	25 *B* Na.Do. 26 Stephan.
17 Lazar. 18 Chriſtop.	△9.	△17				□6.	□☉♂6	27 Joa. Ev. 28 Innoc.
19 20	□14.		☍6	□8.34	⚹13	△22.		29 30 David
21 Thomas 22 *F 4. adv.*	⚹23 occid			△22.			☽☊ ☍♄☉7 SS♃☿	31 Sylveſter 1 *Ian. A.* 1651
23 24 Ad. Eva		☍14	△6.		□3			2 3
25 Nat. Do. 26 Stephan.	☌22.		□21		△18.	☍14		4 Teleſphor. 5 Simeon
27 Joa. Ev. 28 Innocen.		△16.		☍9.41			☽ Apog. □♄♂10	6 Epiphan. 7 Julian.
29 *F.* 30 David			⚹11				☍♄☿5. □♂☿7	8 *A 1. p. Epiph.* 9
31 Sylveſt.	⚹23	□5			8☌			10 Paul. Erem.

Radices mediorum motuum Planetarum ad Meridianum Uraniburgicum & ad meridiem Calendar. Januar. anni Juliani & æræ Christianæ 1650. pertinentes, ex Tabb. Rudolphinis Keppleri observationibus Nobilißimi Tychonis à Brahe innitentibus excerptæ.

	S.	°	'	''
Præcessio Æquinoctiorum à prima ♈ stella	0	28	18	39
Longitudo ☉ media ab Æquinoctio verno	9	21	35	46
Apogæum Solis	3	7	7	27
Longitudo ☽ media ab Æquinoctio Verno	1	8	8	50
Apogæum Lunæ	2	3	36	41
Nodus Boreus Lunæ	4	29	34	40
Longitudo media ♄ ab Æquinoctio Verno	2	27	56	45
Aphelium Saturni	8	26	59	24
Nodus Boreus Saturni	3	21	58	20
Longitudo ♃ media ab Æquinoctio Verno	6	28	30	46
Aphelium Jovis	6	7	31	20
Nodus Boreus Jovis	3	5	28	50
Longitudo ♂ media ab Æquinoctio Verno	10	26	32	1
Aphelium Martis	4	29	54	35
Nodus Boreus Martis	1	17	16	57
Motus medius Longitudinis ♀	7	16	29	18
Aphelium ♀	10	2	18	6
Nodus Boreus Veneris	2	13	39	8
Motus medius Longitudinis ☿	7	18	13	4
Aphelium Mercurij	8	14	15	24
Nodus Boreus Mercurij	1	13	34	59

FINIS

Ephemeridis ad Annum Christi 1650.

Christophori Schwartzbachi Lusati Lusus Paragrammaticus per numeros figuratos angulares. Lipsiae apud David Müller Bibliop. Vratislav. 1636. in 12°.

Tabula generalis 75 partis secund.

Non exigit hic locus, ut meam de Iudiciaria [illegible] ... si dixerim me illam omisisse consulto [illegible] strationum seria intertexturum opus in continuatione [illegible]. Nec enim moveri debeo quorundam rerum [illegible]: illi licet [illegible] speculationi. Agnoscimus [illegible] incredulos principes nostri simul [illegible] fuerunt. Fuit enim semper [illegible] animi sciendi futura sed prae caeteris potentiores facillime [illegible] eam abuntur opinionem, ut sibi sidera [illegible] in [illegible] fata describi [illegible]. Tibi autem [illegible] gratia quaerenda est: apud se [illegible] verum cognoscis et amas, cuius beneficentia expectationem, qui denique omnia virtuti, astrorum [illegible] minimum debes. Haec Petri [illegible] quinti Tomi cursus Mathematici.

[illegible] genere Herigonus, tamen verum est [illegible] aliter evenit: quae licet non geometrica necessitate concu[illegible] est physice, ut plerumque [illegible] concordant [illegible] tamen?

R℞ cochlearum testas in ripis stagnorum easque in aceto forti macera[illegible]
deinde munda aurugine ~~[illegible] aurifabrum~~ scopis ferreis quibus aurifabri utuntur postea calcin[a]
calcinatas pulveriza. pulvis pondere ʒj ante 1 dater in
clausa cum butyro recenti in febribus ut sudare possit æger
~~infebritus~~ · Instante paroxysmo
notabilis naturalis
Anno 1574 Dominica passionis ante meridiem quum
fruebatur summum sacrum. Altitudo 52 gradu sub
meridiano Varsaviensi R.D Przyborowski

R[illegible] Dnus Stanislaus Loza natus 1569 die octava Maii. ita sibi computabat
annos quamquam dubius esset quo anno. notanda pestis sub Augusta mortuus
anno 1639 quarta Maii hora antemeridiana 9.30
anno 1635 in imagine posuit annum ætatis currentem 63

Revolutio [illegible] Dni [illegible] Regni anno 1639
currente 28 Octobris · 16072 · inclusive.
16072

Si aliqua vana ex Astrologia authores
gravissimi vituperanda reaffirmant: an propterea
omnia? Quae physicis rationibus consentanea
sunt retineamus superstitiosa [illegible]



IOANNIS

FROSCII

